

A New Housing Model | The Man Who Changed the Internet | In Praise of Humanities

DUKE

JANUARY-FEBRUARY 2012

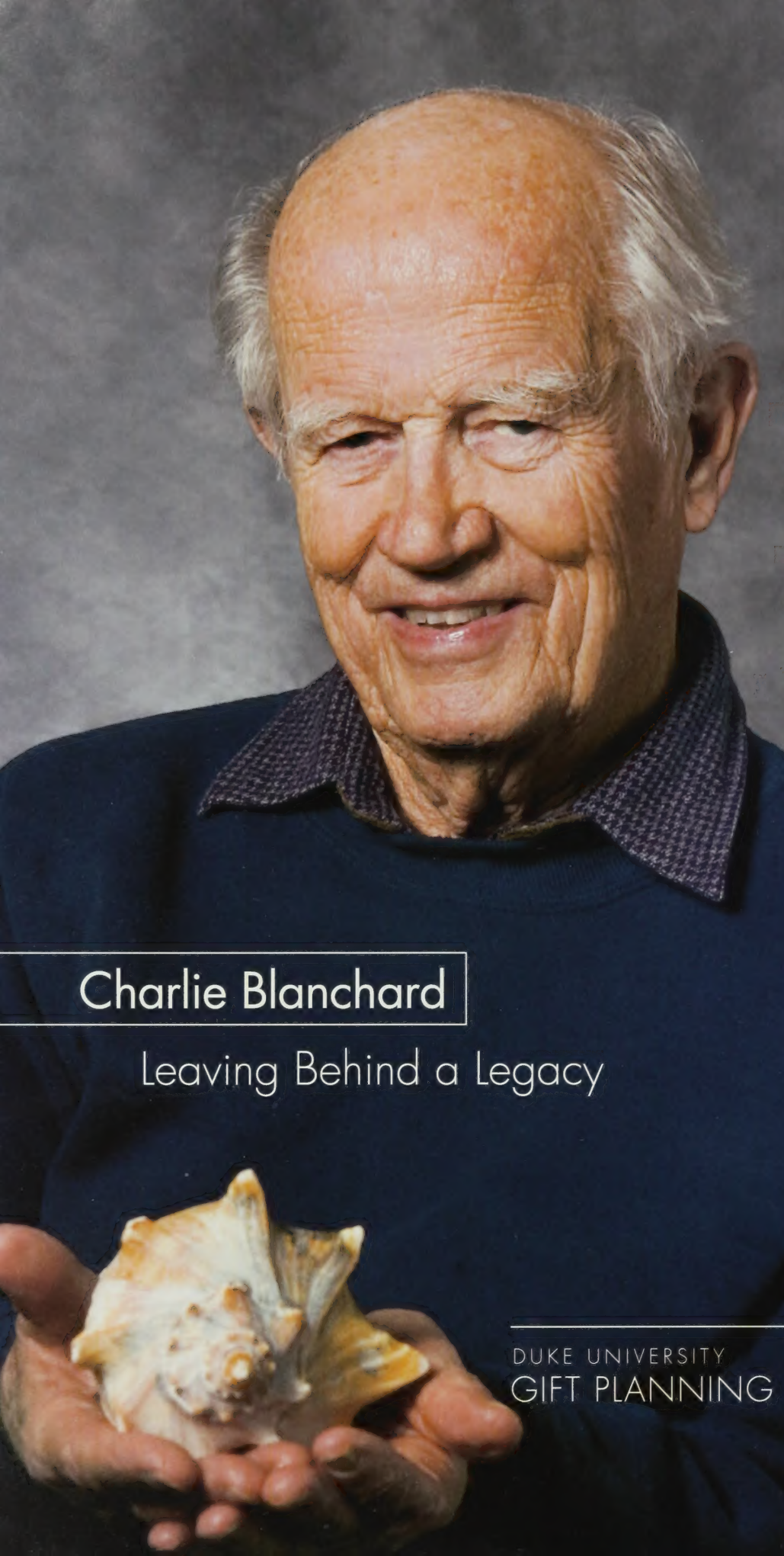
MAGAZINE

RECEIVED
FEB 07 2012
DUKE UNIVERSITY LIB

The symbiosis between Coach K and Duke—
and how it almost came apart

LSC

4
Pieces



Charlie Blanchard

Leaving Behind a Legacy

Charlie Blanchard T'45, L'49, P'80 is part of a proud Duke family. In the early 1900s, his father and two uncles attended Trinity College. Then Charlie and his brother came to Duke in the 1940s, each of them serving as president of the student body. Charlie went on to attend law school at Duke, before establishing Blanchard, Miller, Lewis & Styers, a successful law firm in Raleigh, where he remains of counsel today.

It was in the 1980s, after one of his daughters and one of his nephews graduated from Duke, that Charlie became interested in the Duke Marine Lab. He and his late wife, Bernard, owned property near the lab and had a passion for the North Carolina coast. They enjoyed learning about Duke's Beaufort campus, and soon, Charlie was invited to join the Marine Lab Advisory Board.

Charlie and his family created the *Lawrence E. Blanchard Endowment Fund* at Duke to honor Charlie's father and support Marine Lab students. Later, when Charlie wanted to leave behind a more significant legacy in his father's name, he and his wife decided to do so through deferred gifts. They established a charitable gift annuity and a charitable remainder unitrust. The former provides donors with a fixed income during their retirement years; the latter provides an income stream that fluctuates with the market. Ultimately, the remainder of both will be used, in part, to endow the *Lawrence E. Blanchard Society of Fellows and Scholars* at the Marine Lab.

There are many ways to leave behind a legacy at Duke. To explore options, contact:

DUKE UNIVERSITY
GIFT PLANNING

Duke University Office of Gift Planning

Box 90600

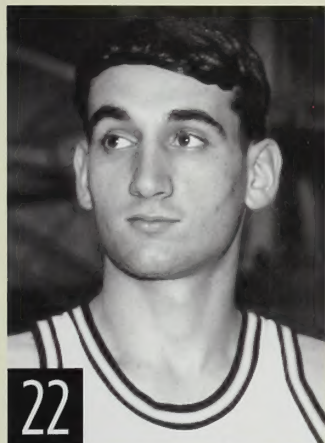
Durham, North Carolina 27708

Phone (919) 681-0464

Fax (919) 684-9731

Email gift.planning@dev.duke.edu

FEATURES



22

Duke Sports Information



30

Duke Photography



36

Lacey Chylack



42

Reprinted by the permission of Russell & Volkening as agents for the author. ©1993 by Eudora Welty

COVER

Lessons in Perpetual Motion

by Bridget Boober

Mike Krzyzewski learned the hard way that he can't be the center of the wheel for every aspect of Duke's men's basketball program

Model House

by Elissa Lerner

Duke's new residential plan revolves around smaller living communities—an idea borrowed from its past, with a few modern updates

To Infinitude and Beyond

by Sally Ann Flecker

Computer scientist Luis von Ahn '00 taps into the Internet's most powerful resource: the millions who use it every day

The Fire That Never Goes Out

by Richard H. Brodhead

Reflections on a trip to Eudora Welty's River Country, the power of human invention, and the vital place of the humanities

COVER: Coach Mike Krzyzewski reflects on more than three decades at Duke. Photo by Chris Hildreth

DEPARTMENTS

2 QUADQUOTES

6 Gazette

Campus, Arts, Research

16 SPORTS

Plumlee perspectives

18 Q&A

Innovation, entrepreneurship, and a shift in campus culture

20 OBSERVER

Awaaz: high-energy artistry



46 BOOKS

Ethics and the extending of human abilities, plus Book Notes

49 AlumniRegister

DAA activities, class updates, mini-profiles

67 CLASSIFIEDS

68 EXTRACREDIT

Car-sharing goes electric



EDITOR:

Robert J. Bliwise A.M. '88

MANAGING EDITOR:

Michael Penn

ASSOCIATE EDITOR:

Bridget Booher '82, A.M. '92

CLAY FELKER MAGAZINE FELLOW:

Elissa Lerner '08

OFFICE MANAGER:

Renee Carroll

PUBLISHER:

Sterly L. Wilder '83, Associate Vice President,
Alumni Affairs

STUDENT INTERNS:

Dan Altman '15

Tim Lerow '15

Kristin Oakley '12

Aziza Sullivan '12

DESIGN CONSULTANT:

Lacey Chylack, phase5creative inc.

PRINTER:

Progress Printing

OFFICERS, DUKE ALUMNI ASSOCIATION:

Hardy Vieux '93, president

Sterly L. Wilder '83, secretary-treasurer

EDITORIAL ADVISORY BOARD:

Peter Applebome '71, chair

Sarah Hardesty Bray '72; James Burnett '98

William Cohan '81; Jennifer Farmer '96

Jerrold K. Footlick; Robbyn Footlick '85

Edward M. Gomez '79; Devin Gordon '98

Kerry E. Hannon '82; John Harwood '78

Dave Karger '95; Nora Krug '92

Sara Lipka '01; Julia Livshin '96

Valerie A. May '77; Susannah Meadows '95

N. Page Murray III '85; Will Pearson '01

Lauren Porcaro '96; Shaun Raviv '01

Jim Rosenfield '81; Jon Scher '84

Lesley Jane Seymour '78; Elizabeth Spiers '99

Greg Veis '03; David Walters '04

James O. Wilson '74

Robert J. Bliwise A.M. '88, secretary

Clay Felker '51, founding chair

DUKE MAGAZINE

Box 90572, Durham, N.C. 27708

PHONE: (919) 684-5114

FAX: (919) 681-1659

E-MAIL: dukemag@duke.edu

ADDRESS CHANGES:

Alumni Records, Box 90581, Durham, N.C. 27708

or e-mail: bluedevil@duke.edu

© 2012 Duke University

Published bimonthly by the Duke Alumni Association



BETWEEN THE LINES

Back in its November-December 1997 issue, the magazine's cover story looked at how Duke got so hot so quickly—how it evolved from a strong regional university to a national (these days, one would have to say a global) academic powerhouse.

The story sought to answer a question sure to resonate in the competitive higher-education sector: Is there a formula to a university's rise to prominence? It looked at a series of visionary Duke leaders (beginning with Terry Sanford), initiatives that cultivated national journalists, an admissions strategy that targeted states with the highest demographic growth, efforts to take advantage of Duke's location in the South and the Research Triangle, "star" faculty hires in such areas as English, and a bolstering of graduate programs.

Then there was men's basketball. Among the sources cited in the 1997 story was Mike Krzyzewski, the cover subject of this issue. Krzyzewski said his program had worked hard to use its public platform to communicate the broader Duke picture. His point then—which he builds on in this issue's profile—wasn't that basketball creates Duke's reputation or explains its appeal, but rather that basketball provides an inviting avenue for deeper encounters with Duke. "The fact is that we're on television twenty-five to thirty times a year," he said. "That exposure for a two-hour period for every game—I don't know how you measure that."

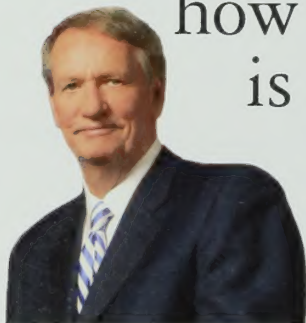
He added, "If you get to a certain point where you're getting all this notoriety, even if you lose in the Final Four or in the championship game, how you handle that loss sometimes means more than winning. I think Duke is about keeping things in perspective and keeping things balanced. When people think of Duke, they think of success, and they also think of character."

Part of his program's mission, Krzyzewski said, was "to market the university, to get the name out there a little bit more. Then once people look at it, they'll recognize what Duke does academically."

—Robert J. Bliwise, editor

QUADQUOTES

"I strongly believe that how you get things done is just as important as getting them done."



—Former General Motors chairman and current Duke trustee chair **Richard Wagoner** '75, at his first public appearance since 2009, as the winter commencement speaker at Virginia Commonwealth University

"As tempting as it is to blame greedy commercial influences in the marketplace, the real culprits in this persistent failure to reform have been, and remain, the universities themselves."

—**Charles Clotfelter** '69, professor of public policy, economics, and law, and author of *Big Time Sports in American Universities*, on the barriers to reform in college athletics (*The Des Moines Register*)

"Can anyone credibly believe that the mediocre overall performance of American students on international tests is unrelated to the fact that one-fifth of American children live in poverty?"

—**Helen F. Ladd**, professor of public policy and economics, in an essay coauthored by Edward Fiske, editor of the *Fiske Guide to Colleges* (*New York Times*)



DUKEVIEW

Gone in a flash: Dozens of homemade cookies, brownies, and lemon squares—plus lots of coffee—were snapped up by students studying for finals in December. Sponsored by the Friends of the Library and Campus Club, the semiannual study break provides a brief, sweet respite.

Megan Mori

“I thought it was amazing that monkeys could do this, so we should be even more impressed that pigeons can, too.”

—**Elizabeth Brannon**, professor of psychology and neuroscience, on the discovery that pigeons can do abstract arithmetic (*Time*)

“Do the freedoms extolled in the Supreme Court opinions have the same resonance when everyone and his brother can publish false information to the world at the push of a button? I’m not sure. Both the costs and benefits of the protections for false statements seem to have increased in the blogging era, and it is not obvious to me which have increased more.”

—Law professor **Stuart Benjamin**, on First Amendment “shield laws” (*New York Times* online)

“Big business can be good. You can make that happen.”

—**Christine Bader**, nonresident senior fellow at the Kenan Institute for Ethics, in a talk titled “Manifesto for the Corporate Idealist,” for a TEDx event at Hunter College

“I’m sore, but I’m doing fine.”

—**Jennifer Gommer**, of Holly Springs, North Carolina, after a rare, four-way kidney transplant at Duke Hospital. In simultaneous surgeries, Gommer donated one of her kidneys to a patient who matched her blood type, while a stranger donated a kidney to Gommer’s mother (*Raleigh News & Observer*)

“I think the eco-buses that Duke got are really awesome, especially because of the number of times a day the buses are used and the people riding them. It’s really important to take care of the environment.”

—**Courtney Montgomery** ’12, on Duke’s two new hybrid double-length buses, part of the campus effort to become carbon neutral by 2024

“I do not want to be part of the generation that proclaims the last tiger is gone, or the last gray wolf, or the last polar bear. We really can do better.”

—**Kathy Rudy**, associate professor of ethics and women’s studies and author of *Loving Animals: Toward a New Animal Advocacy*, on adapting our approach to animal rights (*Salon.com*)

“The more important your role, the more inclined people are to tell you what they think you want to hear, rather than the truth. As a leader, you need to actively create an environment where you can do that, because otherwise it’s too easy to spend your time effectively looking in the mirror, rather than through the glass to see what’s needed.”

—**Sim Sitkin**, professor of management at Fuqua, after the first Dubai Duke Leadership Workshop (*TheNational.ae*)

“In layaway, they’re going in, finding, and helping specific people, rather than just giving an amount that could help anyone. Having an identifiable person to help turns out to be a greater motivator rather than thinking about the general greater good.”

—**Scott Huettel** Ph.D. ’99, professor of psychology and neuroscience, on the motivation of “layaway angels,” who anonymously pay off strangers’ layaway debts (*ABC News*)

FULLFRAME

So close: Unranked in the preseason polls, the Blue Devil women's soccer team enjoyed the most successful season in school history—including the ACC regular season championship—before falling to Stanford, 1-0, in the NCAA Tournament finals. *Photo by Jon Gardiner.*





Gazette

CAMPUS | ARTS | RESEARCH



Scholarly promise: The Karsh gift will benefit programs such as the Karsh International Scholars, which admitted its inaugural class, above, this fall.

Trustees Step Up

Two major gifts boost financial aid, colleges.

Duke trustee Bruce '77 and Martha Karsh gave a significant boost to Duke's commitment to meet every admitted student's financial need with a \$50 million donation. The gift—the largest by individuals to support financial aid at Duke—will create an endowment for financial aid for undergraduate students from the U.S. and abroad.

The Karshes' gift will add \$15 million to the existing Karsh Scholarship Fund and \$20 million to expand and strengthen the Karsh International Scholars Program, which was launched last year. Another \$5 million from the gift will go toward creating a "KIPP at Duke" endowment, which will provide financial aid for tuition, program enrichment, advising, and other support for graduates of the Knowledge Is Power Program (KIPP), a network of college-preparatory public schools in underserved communities throughout the nation. The Karshes also have designated \$10 million to match gifts that establish named, need-based undergraduate scholarships for U.S. students.

Duke is one of a small number of universities that guarantees to meet the full demonstrated financial need of admitted U.S. students. The university also has sought to increase the amount of aid available to international students.

A few days after the Karshes announced their gift, fellow trustee Jack O. Bovender Jr. '67, M.H.A. '69 and his wife, Barbara, announced a bequest of \$25 million to support the Fuqua School of Business, Trinity College of Arts & Sciences, and the School of Nursing. The estate gift includes \$10 million each for Trinity College and Fuqua's Health Sector Management program and \$5 million for Nursing.

Bruce Karsh is president of Oaktree Capital Management, which he cofounded in Los Angeles in 1995. He chairs the board of directors of DUMAC, which manages Duke's endowment. Martha Karsh is a lawyer and cofounder of Clark & Karsh, an architecture, design, and development firm in Los Angeles.

Jack Bovender retired in 2009 as chair and CEO of Hospital Corporation of America, which owns and operates 164 hospitals and 106 freestanding surgery centers in the U.S. and Great Britain. Barbara Bovender is a former head nurse at Duke Hospital.

London Calling

Wells to become vicar of St. Martin-in-the-Fields

The Reverend Samuel Wells, who has served as the dean of Duke Chapel since 2005, will leave Duke this summer to become the vicar of St. Martin-in-the-Fields in London.

Wells, who grew up in Bristol, England, will lead a prominent church that enjoys a close relationship with national leaders. Located in Trafalgar Square beside the National Gallery, the church is renowned for its high profile in the arts and engagement with poverty and social issues.

In addition to serving as dean of Duke's iconic chapel, where he leads weekly services and oversees a staff of twenty-five, Wells has worked closely with the associate dean for religious life to assist twenty-eight student groups that minister to the spiritual needs of Duke students. He has been an active leader in the Duke and Durham communities, making connections with students, campus deans, and others to address ethical issues and establish close ties with diverse faith groups. He also has emerged as an influential voice on behalf of the poor, recently coauthoring *Living Without Enemies*, a book describing care for those directly affected by gun violence.

"I've loved being a part of Duke as we have explored together what faith means to head, heart, and hand in a diverse culture at a challenging time," Wells says. "It has been an amazing privilege and joy to lead the ministry of the chapel and share in the vibrant Duke and Durham communities."



Godspeed: Wells returns to England.



BY THE NUMBERS

The Link

When the libraries unveiled the Link in 2008, it was hailed as a cutting-edge teaching and learning environment. Today, the innovative space is going strong with a steady hum of student and faculty activity.

21

Number of classrooms, seminar rooms, and group study rooms

725

Number of courses taught in Link classrooms since fall 2008

3

Classrooms with video-conference capabilities

12

Time difference in hours between two sections of a class on constructing virtual worlds, meeting simultaneously in Durham and China, using the Link's video-conference capabilities

48

Monitors hanging on a display wall in the reception area showcasing student digital-media projects

60

Mobile devices and laptop computers available for scheduled classes

\$2,531

Retail price found online of the Pierre Paulin Tongue chair

4

Number of Pierre Paulin Tongue chairs at the Link

24,000

Approximate square footage of floor space in the Link

10,000

Approximate square footage of walltalkers dry-erase wall covering

—Elissa Lerner

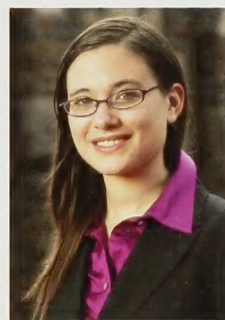
The Marshall Plan

Duke senior wins scholarship to study genetics.

Even before arriving at Duke as a freshman, Daphne Ezer '12 had set herself apart. As a high-school student in Norfolk, Virginia, having already done research in computational and mathematical biology, she e-mailed Duke computational biologist Alexander Hartemink '94 about joining his lab.

"I can assure you that's the only time that has ever happened," says Hartemink, the Alexander F. Hehmyer Associate Professor of computer science and a former Rhodes Scholar.

Little surprise, then, that Ezer is again ahead of the pack. A double-major in biology and computer science, she has won a prestigious Marshall Scholarship to complete two years of graduate study in the United Kingdom. She plans to use her award to pursue a doctoral degree in genetics at the University of Cambridge.



Cambridge bound: Daphne Ezer

Ezer hopes to use artificial intelligence technologies to "predict the biological impact of a genetic mutation that we have never observed before." She will work with Cambridge researcher Boris Adryan to develop predictive models of how genes are turned on and off.

At Duke, Ezer was an A.B. Duke Scholar and Faculty Scholar, president of the Duke chapter of the Association for Computing Machinery, an organizer of the 2011 National Undergraduate Bioethics Conference, and a winner in the undergraduate division of the Duke Start-Up Challenge, which promotes student entrepreneurship. She also served as a teaching assistant in computer science and taught English to Tibetans in China.

She says the overseas experience proved valuable in broadening her horizons and strengthening her ability to communicate her work. "Research is only half of the process of science. For science to have any impact, research must be shared with others," she says.

Blog Roll

Admissions introduces student bloggers to dish on Duke.

In the picture-perfect world of many universities' admissions websites, a genuine reflection of campus can be rare. How do prospective students know they're getting the real scoop?

It may be easier when the scoop is coming from students themselves. Starting this fall, Duke's undergraduate admissions office has assigned seven students to blog about their experiences in and out of the classroom, part of an effort to give prospective students a more intimate look at life at Duke.

"Ultimately, no one can describe the Duke undergraduate experience better than the students themselves," says Christoph Guttentag, dean of undergraduate admissions.

The seven bloggers come from a variety of backgrounds, majors, and class levels and include one international student from

Thailand. So far, they've been writing about all facets of Duke life, from move-in day to studying abroad to being part of the Cameron Crazies.

"I really want to be able to give prospective students a real and tangible perspective on what it is like to be a college student and, specifically, what it is like to be a Duke student," says Sarah Haas '15, one of the bloggers. "I remember going through the application process and picking a college, and I would have loved to have been able to read a student blog like this one."

Evidently others agree. The number of students applying to Duke's early-decision period rose by 23 percent from last year. Sure, it's not all because of blogging, but it shows a little authenticity can't hurt.

STUDENT SNAPSHOT

Risa Isard '12, studying sports in society

In the fifth grade in Phoenix, Arizona, Risa Isard started a drive to collect toiletries for a local women's shelter. She then arranged for the most charitable class to meet a professional basketball player from the WNBA's Phoenix Mercury. For the self-described "eleven-year-old version of an activist," it was the perfect marriage of two loves—a social cause and sports.

Those passions still run deep in Isard. Now a senior at Duke, she is pursuing an academic concentration called "Social Change at the Intersection of Culture, Gender, and Sports," a self-designed track that includes courses in history, public policy, sociology, and women's studies—all of which contribute to her understanding of how sports, and the athletes who play them, can serve as a platform for social activism.

"I'm interested in how sports are a microcosm of the outside world," Isard says, "and how the outside world is a macrocosm of sports."

A former walk-on member of the varsity rowing team and current co-head manager of the

women's basketball team, Isard recognizes the positive impact sports can create in society, and vice versa. She is writing her senior honors thesis on the implementation of Title IX, the 1972 U.S. statute that disallows federal aid to educational institutions that employ discriminatory policies and is widely credited for enabling greater participation among women in college athletics. But she notes that sports also can reflect deeper societal tensions. She was dismayed, for example, by the controversy surrounding South African track star Caster Semenya, whose gold-medal-winning performance at the 2009 World Championships sparked accusations that she wasn't truly female.

"Semenya, wearing short hair and pounding her chest after victories, was not akin to what Western ideology would expect from a woman," Isard says. "The fact that many people exhibited homophobia in their reactions shows how tenuous the relationship between sports and gender still is."

"We absolutely need better policies to make sure that what



Inspired by Title IX: Isard explores the intersection between sports and social activism.

happened to Caster Semenya is never repeated," she continues. "People need to speak up in their everyday lives and live with a sense of intentionality."

At Duke, Isard speaks up through her involvement with the Center for LGBT Life and Blue Devils United, where she edits a blog called "Our Lives." After graduation, she plans to

pursue a Ph.D. in sports sociology and eventually work as a consultant with a sports governing body, such as the International Olympic Committee or the NCAA. She remains motivated by her belief that sports can drive social change, citing initiatives such as the NBA's "Think B4 You Speak" public-service announcements and the

NFL's recent prohibition of discrimination on the grounds of sexual orientation as positive examples.

"I wouldn't be surprised if, ten years from now, this past year is seen as the turning point," she says.

—Tim Lerow

Brighter prospects: 93 percent of full-time students graduating from the Fuqua School of Business in 2011 had job offers within three months of earning their degrees, an 11 percentage-point increase from 2010 and up 14 points since 2009.



Tasting Culture

International Association's FoodFest becomes a savory tradition.

With the aroma of exotic spices mingling in the air, the Bryan Center plaza had the feel of a crowded world bazaar during the 2011 FoodFest, an annual staple of Duke's International Association.

Begun in 2003 as a way to recognize Duke's increasing diversity, the event has grown from just five participating organizations to include nearly every cultural group on campus. The October event featured twenty-two student organizations serving food with another twelve groups performing. More than 1,000 students and community members attended, sampling international fare while enjoying culturally themed dance performances by groups such as the Southeast Asian-dance team Duke Dhamaka and the salsa troupe Sabrosura.

"Compared with previous years, we had more student groups and performance groups participating, and the line for T-shirts was especially long," says Susie Qian, president of the International Association.

Each organization received \$200 to create a dish that reflected its culture's daily cuisine. Among the savory selections were Thai mango sticky rice, stir-fried Singaporean hokkien noodles, and pikliz, a spicy coleslaw soaked in vinegar prepared by the Haitian Student Alliance. Meanwhile, the Turk-



Culinary adventures: Hokkien noodles, pikliz, and baklava were among the international delights available for sampling.

ish Students Association pleased the crowd with samples of baklava. "It's Turkey's most prominent dessert. Besides, we like eating it as much as anybody else," said Merrill Edmonds '12, a TSA member.

Swift Bonding

Jewish, Muslim students put social connections before politics.

In the summer of 2011, Kevin Lieberman B.S.M.E. '12 was facing a challenging senior year as president of the Jewish Student Union. He knew that the U.N. General Assembly would be voting in the fall on Palestinian statehood, and he feared that the issue would raise tensions among Jewish and Muslim students on campus.

Rather than sit and wait for campus politics to turn ugly, Lieberman turned to his friend, Nadir Ijaz '12, president of the Muslim Students Association.

"Kevin reached out over the summer to talk about interfaith planning. He thought it would be cool to develop social bonds and friendships instead of forcing dialogue around charged topics," Ijaz says. "It would be more natural and less offensive."

The conversation grew to include seniors Benny Maimon and Khadija Bhatti;

the two were friends from their freshman-year dorm. Maimon had been a participant on a small interfaith trip to Turkey in May 2009 and recalled the enduring bonds from that experience. "Those interfaith bonds were some of the best I've made, and I'm concerned when we graduate, we'll lose it," he says.

The students planned a social event to kick off the fall semester—a casual outing at Local Yogurt where members of JSU and MSA could meet and eat. That led to a progressive dinner on Swift Avenue, where both groups' cultural centers are located. They also invited residents from the nearby Smart House, an environmentally themed residential community. About twenty students munched and meandered through the three locations, learning about the distinctive features of

each community.

"Our groups face similar challenges," Ijaz says, pointing to religious and dietary strictures, as well as similar organizational structures. "We are each other's best allies," Lieberman echoes.

That message shows considerable progress from even less than a decade ago, when tensions surfaced among Jewish and Muslim students around the 2004 Palestinian Solidarity Movement conference on campus. "Duke is one of the few places where Jews and Muslims get along," Maimon says, emphasizing that it was one of the reasons he chose to come here in the first place.

"It's important for freshmen to see our organizations interconnected as the status quo," Ijaz says. "It sets the stage for future years of MSA and JSU."



First bass: John Brown, director of Duke's Jazz Ensemble, performed for an audience including Barack and Michelle Obama during the Asia-Pacific Economic Cooperation summit in November. Brown played bass for six-time Grammy-winning singer Nnenna Freelon, a Durham resident who headlined the dinner party hosted by the Obamas.



Nathan Keay • MCA Chicago

Calder and Crew

Nasher exhibition explores a master's influence on contemporary artists.

While Alexander Calder may be best known for constructing abstract sculptures and mobiles, his work is rarely considered a source of inspiration for contemporary artists. But in the new exhibition *Alexander Calder and Contemporary Art: Form, Balance, Joy*, thirty-four of Calder's original works will be displayed alongside the work of seven contemporary sculptors to illustrate his influence on a new generation. The show, organized by the Museum of Contemporary Art, Chicago, will be on display at the Nasher Museum from February 16 to June 17.

Though Nasher is the fourth and final stop on the exhibition's tour, it will offer visitors a different perspective. While previous curators have kept Calder's works separate from those of the other artists, Sarah Schroth, Nasher's senior curator, plans to make the connections between Calder and the other artists more explicit. The pieces—mostly sculptural works—will fill two of Nasher's three pavilions. To accentuate the feel of a contemporary art gallery, several interior dividing walls will be removed

for the show, and the remaining walls will be painted gray.

Each of the seven artists exhibited with Calder has cited the sculptor as an influence. The show is the first major museum exposure for two of the artists, Kristi Lippire and Jason Middlebrook, and both will serve as artists-in-residence at Duke during the spring. The exhibition also features works by Martin Boyce, Abraham Cruzvillegas, Nathan Carter, Aaron Curry, and Jason Meadows.

"I think it's a revisit or a re-viewing of a great Old Master, but in a new context," says Schroth. She notes that while Calder's popularity has fluctuated since his death, his influence is undeniable. "This [exhibition] is a lesson in the fact that contemporary artists also look backward and also learn from the Old Masters," she says. "There's never been a show where young sculptors are juxtaposed with a master of modernism."

GALLERY

Selections from the Nasher Museum of Art

Conceptual artist, architectural designer, and social activist Ai Weiwei is one of the leading cultural figures of his generation and arguably China's most prominent artist. Working with sculpture, installation, performance, photography, and curatorial projects, Ai has consistently put himself at risk in an attempt to effect social change through his work. He is frequently at odds with the Chinese government for his stance on free speech and human rights, and in April 2011 he was put in prison for nearly three months on charges of tax evasion.

Marble Chair is based on the 1,001 wooden chairs from the Ming and Qing dynasties Ai used in his 2007 installation, *Fairytale*, in Kassel, Germany. One-thousand-and-one Chinese volunteers signed up through his blog to sit on the chairs during the project. In March 2009, he showed sixteen marble chairs in an exhibition in London. In *Marble Chair*, Ai reproduces the design of the wooden antique prototype onto a single block of striated marble, a medium often used for monuments and gravestones, which memorializes and translates the traditional chair into a place of permanence.

The reinterpretation of the 2007 installation raises questions of history, memory, cultural authority, and modernization. *Marble Chair* suggests that the rush of "progress" takes its toll not only on the people, but also on the culture that is lost within the change. The empty chair evokes the absent figure, an effect made more visceral during the artist's recent incarceration by the Chinese government.

This new acquisition, purchased with funds from the estate of former Duke professor Wallace Fowlie, is currently on view at the Nasher Museum with other works by contemporary Chinese artists.

www.nasher.duke.edu

Marble Chair, 2008. Ai Weiwei, Beijing, China. Purchased with funds provided by the Estate of Wallace Fowlie, 2011.15.1.



Pastoral Art

Divinity explores theology in creative expression.

When the latest issue of *Divinity*, the divinity school's alumni magazine, came out this fall, readers may have thought they were getting an art-school publication by mistake. The magazine included articles on the role of artists in the church, the theology of jazz music, and "A Defense of Christian Kitsch."

The theme was chosen to reflect the divinity school's arts initiative, one of the few in the country to examine the relationship between theology and art. Sparked in part by the 2008 hire of Jeremy Begbie, a theologian and classical pianist who studies the interplay between music and theology, the initiative has spawned student groups such as the Creation Arts Group, which curates an annual art exhibition and musical performances. The arts played prominently in the school's fall Convocation and Pastors School, which offered attending pastors breakout sessions on prayer and

dance, writing spiritual autobiographies, and theology and jazz.

Divinity Dean Richard Hays says he has long seen the arts as "a way of cultivating disciplines of attention and forming character in such a way that it makes people good interpreters of the Word."

"Artists are seeking to give expression to their spiritual quest through their work of artistic creation," he says. "One of the things we need to do as a divinity school is to help us think well about how we do that, and we need to do it with integrity, theological depth, and consciousness."

As for the magazine, "we've had a very good response," says *Divinity* editor Heather Moffitt. "Someone who attended the Convocation and Pastors School got the magazine and was so pleased she told us this is the place where she wants to be, and now she's applying to the divinity school."

DIVINITY



Beyond Human

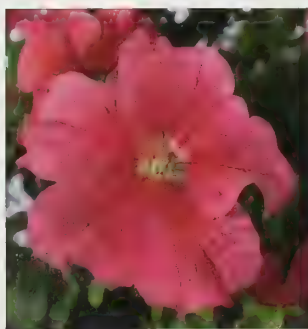
Bio-art pioneer ponders a new audience for his work.

When Eduardo Kac first visited Duke in 2000, few people had heard of "bio-art"—art that relies on biological technologies and phenomena to create new aesthetics. Kac (pronounced "cats") had coined the term only three years earlier, when he had had a microchip implanted in his leg to illustrate the merging of the physical body with technology. The work raised provocative questions about individual agency, surveillance, and how technology is altering what it means to be human.

Eleven years later, Kac returned to Duke as part of the Visiting Artist Lecture Series, where he discussed how the explosion of biotechnology during the past decade has shaped his art. Those discoveries "create new social relationships, images of the human, [and] new life forms," Kac said in an interview before his talk.

Kac's works often challenge viewers to confront those shifting boundaries in unusual ways. For one of his pieces, for example, he spliced his own DNA into a living petunia, creating a flower he calls "Edunia."

"Art as we know it has always been made by humans, for humans," he told the audience. "I am interested in creating art that is not primarily for humans."



Bizarre bouquet: Edunia, a "plantimal" with Kac's DNA expressed in the flower's red veins.

Prevention to Go

Ketchup-packet-like pouch may deliver lifesaving drugs to newborns.

Robert Malkin's invention looks like a packet of ketchup commonly found at fast-food restaurants. What it delivers, though, is far more inspiring than artificial tomato flavor.

The packet is called the Pratt Pouch, named for Duke's Pratt School of Engineering, where Malkin M.S.E. '90, Ph.D. '93 is a professor of the practice of biomedical engineering. It's designed to contain anti-retroviral drugs such as nevirapine, which can prevent the transmission of HIV from mothers to newborns—provided they are administered in time.



Transmission prevention: Engineering student Caroline Gramache holds an HIV drug-delivery pouch as engineering professor and pouch inventor Robert Malkin looks on.

is born, a mother rips open the pouch and squeezes the medication into the infant's mouth.

Last fall, the U.S. Agency for International Development awarded the Duke team a \$250,000 grant to advance the pouch's development. As part of a two-year trial, the pouch will be distributed to HIV-positive mothers in Tanzania to gauge whether they are able to use it successfully.

"The pouch itself has been undergoing modifications over the years, and our main focus now is fine-tuning its design to make sure it is easy to open, especially since the people who will be using it likely will not have seen anything like it before," says Amanda Britt '12, a mechanical engineering student who has been working on the project. "We'll be looking at such things as notches along the side, or arrows or dotted lines—anything that will make the process as uncomplicated as possible for the mother."

"It is well-established that if these newborns can get anti-retroviral drugs within several days of birth, their chances of developing the disease decrease significantly," says Malkin, who directs Duke's Developing World Healthcare Technology Laboratory. "However, many of these babies in Africa are born at home and can't always get the medicine in time." The World Health Organization estimates that more than 90 percent of new cases of AIDS in Africa were attributable to mother-to-child transmission.

Malkin's team spent three years coming up with a low-cost, convenient way to address that problem. The Pratt Pouch, made of foil and lined with plastic, can be filled by local pharmacists with a single dose of anti-retroviral medication and then handed out to HIV-positive pregnant women during prenatal screenings. Once her baby



Hide and seek: Cancer cells can't elude new software.

Mining Cancer

Software developed for mine detection may help doctors spot cancer cells.

When Duke engineer Larry Carin took on a project to develop software for the U.S. Office of Naval Research, the goal was to improve the detection of undersea mines. Now, that same software may end up helping doctors screen patients for cancer, too.

The surprising link stems from a shared challenge in identifying mines and cancer cells: Both rely on computer systems to sift through piles of data and turn up signs of danger. And in both cases, the machines may lack enough information to make the correct decision.

To improve the performance of the Navy's robotic mine-hunting systems, Carin designed active-learning software that helps the computers classify unknown objects. Using information theory, the software asks a human to provide labels for objects the system can't recognize.

It turns out the software also works remarkably well for classifying images of human cells. Medical researchers at the University of Pennsylvania applied the algorithms developed by Carin to an automated image-analysis program commonly used by doctors to identify cancer cells and significantly improved the program's performance. The enhanced toolkit lets physicians label fewer cell samples because the algorithm automatically selects the best set of examples to teach the software.

"The results are spectacular," says Carin, William H. Younger Professor and chairman of electrical and computer engineering. "This is not a typical Navy transition, but it is a transition to a very important medical tool used at hospitals around the world. There is a real chance this may save lives in the future. This could be a game-changer for medical research."

Teenage Wasteland

Study reveals surprises on teenage drug use.

Despite what television shows and prison incarceration records would have you believe, a new analysis of teenage drug use finds greater problems among whites, Native Americans, and Hispanics than among Asian and African-American teens. The study also found that alcohol trails both marijuana and stimulants as the drug most often used by teens.

"I think it will be surprising to some people what the numbers show," says Dan G. Blazer, J.P. Gibbons Professor of psychiatry and behavioral sciences and senior author of the study.

Native American teens were found to have the highest prevalence of alcohol use (37 percent), followed by whites (35 percent) and Hispanics (32 percent). By contrast, 25 percent of African-American and 19 percent of Asian teens reported using alcohol in the previous year.

Drug use followed a similar pattern, with the highest rate of use reported among Native American teens (31 percent), children of multiple ethnicities (23 percent), and whites (20 percent). African-American and Hispanic youths had rates of about 18 percent, while Asians had the lowest rate at 12 percent.

Blazer says the group analyzed data collected between 2005 and 2008 from confidential national surveys of 72,561 adolescents ages twelve to seventeen. Of those, 37 percent said they had used alcohol or drugs in the past year; 8 percent met the criteria for a substance-

use disorder, meaning their use had escalated, interfered with other activities, caused legal problems, or damaged relationships.

"It's important to recognize that among teens using these substances, there's between a 10 percent and 26 percent chance of having a substance-use disorder," says Blazer.

Use of heroin, while relatively rare among teens in the survey, posed the highest likelihood of leading to addiction or abuse. However, the survey also notes a disturbing pattern of dependency with marijuana, far more widely used by teens. Nearly 26 percent of teens who used marijuana had abuse or dependency problems.

Teens who said they used marijuana reported taking the drug an average of seventy-nine days in the past year. Stimulants had the second-highest use, at an average of forty-seven days among users, followed by opioids at about thirty-nine days, and alcohol at nearly thirty-six days. Prescription opioids such as oxycodone are now more popular than inhalants as a source for getting high, according to the study.

"Substance-abuse problems are very difficult to treat when you get into adulthood. If you really want to reverse the abuse and dependence on these drugs, what you need to do is start early, and focus on trying to get these young people into treatment or catch them earlier and stop them from even starting," says Blazer.



SYLLABUS

English 26S.02: The Science of Fiction from *Sister Carrie* to *Battlestar Galactica*

The television shows *Battlestar Galactica* and *The Wire* would seem not to have much in common at first blush. The former is a science-fiction space opera set during a futuristic war between humans and human-like beings called Cylons, and the latter, a modern-day crime drama set in a gritty, urban Baltimore. But Kevin Modestino A.M. '11 sees enough similarity to make them major elements of his teaching.

A fourth-year graduate student in English, Modestino leads a course titled "The Science of Fiction from *Sister Carrie* to *Battlestar Galactica*." The idea to include TV shows arose partially from personal interest, but also from the realization that the popular programs "are trying to use a scientific understanding of psychology, human will, and motivation to plot out very complex social environments that need a broad

level of conceptualization," he says.

The course is intended for non-majors, and it has drawn students majoring in physics, biology, and public policy. Students are expected to read and watch a variety of science-fiction genres and learn how to dissect common devices.



The main goal, says Modestino, is to teach students who otherwise might not look critically at science fiction how to appreciate what he calls "imaginative work."

"I want my students [to leave] thinking these books and TV shows have a lot to say and are worth their consideration as geneticists or policy advisers...that there's a certain way that imaginative work can think about social and ethical implications of ideas and technologies that go beyond the strict hypotheses that occur in formal sciences and quantitative works."

Professor

Kevin Modestino is a Ph.D. student in English, currently at work on his dis-

sertation. He received his B.A. from New York University in English, with a minor in cinema studies, and his master's from Duke in English.

Prerequisites

None

Readings

Sister Carrie by Theodore Dreiser; *The Dispossessed: An Ambiguous Utopia* by Ursula K. Le Guin; *The Lifecycle of Software Objects* by Ted Chiang; *Red Mars* by Kim Stanley Robinson; "The Experimental Novel" by Émile Zola; "The Metropolis and Mental Life" by Georg Simmel; selections from *The City: Suggestions for the Study of Human Nature in the Urban Environment*; selections from *We Have Never Been Modern* by Bruno Latour and others.

—Aziza Sullivan

A Gut Feeling

Intestinal bacteria may determine whether statins lower cholesterol.

Statins can be effective at lowering cholesterol, but they have a perplexing tendency to work for some people and not others. The answer to the question of varying effectiveness may be in the gut.

A research team has identified three bile acids produced by gut bacteria that were evident in people who responded well to a common cholesterol-lowering drug called simvastatin. The finding demonstrates how gut bacteria can cause inherent differences in the way people digest, metabolize, and benefit from substances such as drugs.

"This is personalized medicine—the effects of drugs and how we respond," says



Rima Kaddurah-Daouk, an associate professor in Duke's Department of Psychiatry and lead author on the study. "We found that the benefit of statins could be partly related to the type of bacteria that lives in our guts. The reason we respond differently is not only our genetic makeup, but also our gut microbiome."

A blood test that screens for the specific bile acids identified in the study could provide a way for doctors to determine who would respond to simvastatin. The finding could also point to new strategies to manipulate the gut microbiome using probiotics to spur different gut bacteria, which could then give the drugs a boost.

BIBLIO-FILE

Selections from the Rubenstein Rare Book & Manuscript Library

The scent of sun-warmed leather teases the senses as the worn album cover opens to a page of faded albumen photographs, small images that hint at rugged adventure. An unsigned note, written in pencil, reveals their origin:

"These Photoes was taken by Major Powell of the U.S. Geological Survey in the year 1868 and 1873 along the Grand Canyon of Colorado and Arizona. Some of them in the Azteck region and some in California. Photoes taken by the old Nitrate of Silver process."

Major John Wesley Powell's second expedition along the Colorado River was among the most famous of the mid-nineteenth-century explorations of the Western frontier. The album's crisply detailed photographs capture mountains, waterfalls, wild rivers, canyons, desert landscapes, and Native Americans, giving one a sense of the discoveries Powell's men made on their forays in modern-day Utah, Arizona, and Wyoming. They also reflect the deep knowledge and sheer physical effort required to produce images in the early history of photography.

At the time, photography was a chemical process. As with cooking, the most time-consuming part was preparation. Glass plates were coated with a wet collodion solution, immediately inserted



New frontiers: John Wesley Powell's Second Colorado River Expedition, Green River Station, Wyoming Territory, May 22, 1871

into the camera, exposed, developed, and then fixed while still wet. The procedure worked smoothly in a photographic studio, but it was an enormous challenge in the field. Outdoor photographers required a portable darkroom that contained chemicals for creating light-sensitive surfaces, more chemicals for developing and fixing the image, fresh water, glass plates, drying racks, and grinding stones to smooth the edges of the glass. They also carried multiple

wooden cameras of different sizes, lenses, and tripods.

Powell worked with three photographers during the expedition: E.O. Beaman, who was discharged early on; James Fennemore, who left because of illness; and John Hillers, who was hired on as a boatman in Salt Lake City and volunteered to assist Beaman, learning to make negatives on the job. Hillers' diary, which is also available in the library, describes a thrilling, yet arduous,

journey. "Pulled out early. Ran five rapids then came to a buster," begins an entry for August 28, 1872. "Let down by line, made it, pulled out, ran another. Landed on the left. Made two fine negatives. Had dinner and pulled out into a rapid, then came to a let down."

Yale University owns the only other known copy of the album.

—Karen Glynn, photography archivist for Duke Libraries

Prove It

New app can sniff out doctored files.

Photoshop fiends, beware: YouProve, a new application developed by Duke computer scientists, may be bringing some authenticity to a world of editable media.

Developed in collaboration with Microsoft Research and Technicolor Research, YouProve tracks changes made by editing programs that could significantly alter the content of an image or audio file, such as blurring a face or inserting new content. The feature can be integrated into the Android operating system to monitor images and audio captured with mobile devices.

"With the Arab Spring and the Iranian protests in 2009, we relied on citizen journalists for information," says Landon Cox '99, an assistant professor of computer science who helped develop the application. "But as crowd-sourced content plays an increasingly important role in world affairs, falsified media could have severe consequences. It's important that we make sure the information we are getting is accurate."

The team altered the Android operating system so that it keeps copies of images or audio clips that are opened in applications such as Facebook, Photoshop, or Garageband. YouProve compares modified image and audio files to the original data to create a "fidelity certificate" that notes the extent to which the file has been edited. In tests, the application correctly identified edited regions of photos or audio clips with 99 percent accuracy.



Is this real?: Software detects doctored images such as this morphing of two photographs.



Courtesy: Rytas Vilgalys

Duke biologist Rytas Vilgalys now has a fungus to call his own. Biologists have named a newly identified species of lichen *Lepidostroma vilgalysii* in honor of the professor, who was the first person to collect it in the field.

Field work: Coral-like mushrooms arise from lichen bodies on the soil.

Feeling the Heat

Tropical birds, trees may not be adapting fast enough to climate change.

In response to global climate change, many plants and animals are already adapting to a new, warmer reality. Scientists in Europe and in North America, for example, have observed plant species flowering earlier, animals breeding sooner, and both plants and animals shifting northward as temperatures rise. But two studies from Duke's Nicholas School of the Environment suggest that for some species those changes may not be happening fast enough.

One sign of trouble comes from tropical birds. Because of the gradual change in temperatures across tropical latitudes, birds threatened by changing climates aren't able to easily shift habitats northward. "So moving up to higher elevations is the only way to go," says German Forero-Medina, a Ph.D. student at the Nicholas School.

In a study that compared where tropical birds live now to habitat records from the 1970s, Forero-Medina found that while birds are moving higher, they aren't migrating as rapidly as scientists expected they would need to in response to recorded temperature increases. The animals instead may be tracking changes in vegetation, which can move only slowly via seed dispersal.

"This may be bad news," says Stuart Pimm, Doris Duke Professor of conservation ecology at the Nicholas School and a coauthor of the study. "Species may be damned if they move to higher elevations to keep cool and then simply run out of habitat. But, by staying put, they may have more habitat but they may overheat."

About half of all bird species live at 3,500 feet or more above sea level, and of these species, more than 80 percent may live within the tropics.

Meanwhile, another Duke-led study finds that many eastern U.S. tree species aren't adapting to climate change as quickly or consistently as predicted.

The study, which analyzed data on ninety-two tree species in thirty-one states, found that the geographic boundaries of most tree species are shrinking, rather than shifting northward as predicted. Nearly 59 percent of the species studied had boundaries that are constricting on both their northern and southern limits. Only about 21 percent of the species appeared to be shifting northward. About 16 percent seemed to be advancing southward, and around 4 percent appeared to be expanding in both directions.

"Many models have suggested that trees will migrate rapidly to higher latitudes and elevations in response to warming temperatures, but evidence for a consistent, climate-driven northward migration is essentially absent in this large analysis," says James S. Clark, H.L. Blomquist Professor of environment at the Nicholas School.



Higher ground: Tropical birds like the blue budgie may need to move faster to adapt to climate change.

SPORTS

Three Amigos

The Plumlee brothers revel in college life—and each other's company.

Ask Marshall why I'm driving the van," Miles Plumlee '12 suggests, nodding toward his brother, Marshall '15.

"Because somebody pulled an illegal U-turn and hit me," Marshall protests, referring to Miles' previous vehicle, a Chrysler. "Someone wrecked me."

But Miles is having none of it. "Regardless, he was operating the vehicle," he emphasizes, "and now it's no longer in use."

No doubt, life at Duke would be a bit more glamorous for Miles if he were still driving that Chrysler LHS, the one passed down from his grandparents. With that beauty in the junk heap, he's been relegated to a silver minivan, also a hand-me-down. Still, even with the soccer-mom ride, the Plumlee brothers—Miles, Marshall, and middle brother Mason '13—are living large. And why not? They're all playing Division I basketball (although Marshall likely won't play until next season). They're learning from the winningest coach in Division I men's basketball history (see story, page 22).

And most important, they're together.

The Plumlees grew up in Warsaw, Indiana, where life was good. There were tap-dancing lessons, swimming, snowboarding—and, most of all, basketball. The brothers left to attend Christ School, an idyllic boys' boarding school just outside Asheville, North Carolina, with a burgeoning basketball tradition. Their younger sister, Madeline, is now at St. Mary's School in Raleigh.

Miles was at Christ School for two years, Mason for three, and Marshall for four. Each year yielded a North Carolina Independent Schools Athletic Association state championship.

But the Plumlees made an impression at the school beyond their presence on the court. All three were top scholars involved in myriad activities, and each was selected to serve as a prefect, a high honor recognizing leadership.

"I think they wanted to be known around campus not only as good basketball players, but also as good students and citizens," says Christ School assistant basketball coach and administrator Eric Thorp. "They treated everyone, students

and faculty alike, with the utmost respect and just genuine kindness."

"What they have in common is their respect and care for other people, something I believe they get from their parents," says Mary Jane Morrison, chair of the English department at the school. "They are all genuinely nice young men who do well in school, care for others, value their friends, and go out of their way to serve other people."

The remarkable thing is that this goodwill isn't spared on each other. Just listen to the brothers goofing on one another during a recent interview:

Personalities: "Marshall and I are more similar in terms of interests, hobbies, what we find funny," Miles says. "Mason's different.... He's always been a sports fanatic. But when we're all together, we have a lot of fun."

As for Marshall, Miles says, he's "got this personality that fills the whole room."

"He's always been, since he was a baby, the happiest kid in the world," Mason says of his kid brother. He attests that Marshall is the funniest guy on the Duke team.

"He's always been a social butterfly," Miles adds. "For some reason, people like to hang out with him. I don't get it, but girls like him a lot."

"Mason, he's really steady," Miles says, "and honest. He says what's on his mind; he doesn't hold anything back or candy-coat it for you. You know, kind of similar to how Coach K can be real honest sometimes? Which is funny. We like it."

"His strongest character trait?" Mason muses about Miles. "Man, he's got a lot of them. He's a strong personality.... He's going to be who he is. Because he's that way, he's a good example for us. Miles is, like, so [go] with the flow. He's just there."

The culinary arts: "I'm really good at scrambling eggs," Marshall says.

Miles interjects, "That doesn't qualify as cooking."

Marshall: "Well, what can you do?"

Miles: "I dabble."

Mason: "I can grill a brat."

Marshall: "We just can't use cooking slang—like 'teaspoon' and stuff."

Miles: "That's not slang. That's English."

Dining out: "We go to Cracker Barrel probably more than any other restaurant," Mason says.

Miles: "It's like our family's breakfast."

Marshall: "We could be on a vacation in a part of the country we've never been to, with a lot of authentic places to eat, and we'll still go to Cracker Barrel."

Mason: "We should probably buy stock in it."



On whether Miles could once juggle while unicycling: "Yes," says Miles. "But that wasn't the point."

Marshall: "What *was* the point?"

Miles: "To get from Point A to Point B."

Score, rebound, block, or steal?: "Probably a block," Marshall says.

Miles: "I like to score."

Mason: "I'll go with scoring, too."

Which one dunks the best: "I think we're all going to say ourselves," Mason says.

Marshall: "I'm the only one who's won anything here."

But wait. Who won the contest at Mid-night Madness?

Miles: "That was Miles."

Marshall: "Oh."

Miles: "You don't remember me jumping over you?"

Marshall: "He needed my help to win."

Honorary fourth Plumlee brother: Reggie King, a teammate at Christ School and now a point guard at Winthrop University. But if yet another slot should open up, it most definitely goes to current teammate Todd Zafirovski '13. "He walks around with us, and everybody thinks he's one of us," Miles says.

Post-basketball: "I think he's a businessman in the making," Miles says of Mason. "He's come into this entrepreneur mindset."

"He's really big into get-rich-quick schemes," Marshall adds. "He's had a couple of business schemes that seemed off-the-wall to me.... He had this idea for a urinal video game. You go into a restroom, like in a bar or something, and you get judged for accuracy. There's a screen, and it keeps the high score."

Just such a game was released recently in the United Kingdom and apparently is a hit.

"I don't know what it's called in the U.K.," Mason says, "but we had the best name for it. We were going to call it 'Urine the Game.'"

Upon hitting it rich, some nice things for Mom: "We definitely have to get her a nice car," Mason says. "Because she drove us a lot; she drove us to practice, school. She'd drive us an hour to AAU practice. She did a lot of driving."

Hopes: "Definitely the NBA," Miles says. Upon retirement, "I always wanted to be in engineering; I came here to do that. It would be fun to get into a business with cutting-edge technology."

"My goal is definitely to play in the NBA," Mason says, "and then my goal after that is to not be one of the 80 percent [of former players] who go bankrupt within five years of retiring."

Dreams: "If you'd asked me as a kid if I thought I'd be doing this, I probably would have said yes," Mason says, "but I don't know if I would have totally believed it."

"The opportunity to play at Duke was unimaginable for me," Miles says. "But I'm glad it worked out."

And what about that minivan, the same one the Plumlees' mother used to tote the boys

around? Mason points out it's not entirely Marshall's fault that Miles is stuck with it. "When [our parents] got the [insurance] check, they said, 'Oh, we'll just keep this; forget the car ...'"

Miles: "... 'Miles won't mind driving a silver minivan in college.'"

Another day of life in the fast lane of intercollegiate athletics.

—Taylor Sisk

Sisk is a North Carolina-based writer and editor.



Dunking and driving: Miles, Mason, and Marshall Plumlee, from left

Q&A



Kimberly Jenkins

Senior adviser to the president and provost for innovation and entrepreneurship

Inspiring Big Thinking

Kimberly Jenkins '76, Ph.D. '80 has one of the most interesting titles at Duke—senior adviser to the president and provost for innovation and entrepreneurship. She works to foster and connect entrepreneurial initiatives across the university. Jenkins is the former president of the Internet Policy Institute and the founder of Highway 1, a corporation focused on helping the government take better advantage of information technologies. Earlier in her career, she created Microsoft's Education Division and ran market development at NeXT, a technology start-up company founded by Steve Jobs. Here, she talks about the philosophy behind her current assignment.

What do we mean by the terms innovation and entrepreneurship?

I have come to define these terms in a pretty simple way. Innovation is the creation of new ideas. Entrepreneurship is taking those new ideas and turning them into a product or service or venture.

Is there an entrepreneurial personality?

People who are best at it are risk takers, but it's a very qualified risk: They've done their homework. They don't just throw new ideas into the world; they understand who their end user is, and they go through a process that's very detailed. They're persistent, even relentless. Part of the entrepreneurial process

the time, it's team-based, and the best teams have the most diverse groups of people—engineers along with thinkers in the visual arts, sociology, public policy, law, and so on.

You mentioned risk-taking as a component of entrepreneurship. Is Duke structured to reward risk-taking?

Our faculty members encounter failure all the time in their research; they have hypotheses that don't work out, and they adjust. I was a Duke student, of course, and I know that students haven't necessarily taken a lot of risks to get here. More and more, it's a carefully calculated route, from the courses they take to the extracurricular activities they line up. Then when they're here, their ambitions beyond Duke may mean the same traits get reinforced.

But many students are shifting away from the traditional paths of banking and consulting and are looking to entrepreneurship. And the students we draw in general are well-rounded. They have leadership ability, they have vision, they're sociable, and they are team-oriented. I think a big part of entrepreneurship is having fun with the ideas and the process and with the team that comes together around the venture.

Is it hard to get students who may not lean in that direction to embrace entrepreneurship?

Part of what we can do is to put a spotlight on our alumni entrepreneurs and

You might lose every race, but you have to have the ability to keep getting into the race and the ambition to go for the win.

is that you often fail. So if you run into a brick wall with your idea, you have to know how to pivot and try something else. Some of our best entrepreneurs earn money and celebrity. But really they do it because they're passionate about making a difference and making an impact.

There's a widespread stereotype of the lone entrepreneur, right?

In classes at Duke where we teach entrepreneurship, a lot of it involves teams that coalesce around an idea. Most people, when they think of entrepreneurs, think of the lone individual working away in a garage. Well, 99 percent of



Chris Hildreth

Entrepreneurial initiatives: Jenkins meets with engineering students at DUhatch, a business incubator that connects enterprising students with faculty and industry mentors.

encourage them to serve as role models for this next generation. I just concluded a series of meetings with some of those alumni. There's already a lot of buy-in to this idea.

How do you balance the interests in commercial entrepreneurship and social entrepreneurship?

Actually, it's more a matter of seeing this as a continuum than a balancing act. We already have world-class social entrepreneurship at Duke. Many of the skills for being successful as a social entrepreneur are the same skills that are needed for being a successful commercial entrepreneur. There are differences, but at their core, with both kinds of ventures, you've got to take the idea out of your head and into the world. When you're in a social venture, you still have a bottom line. You have to be able to achieve it, to measure it, to communicate your successes, and to pivot when you're not meeting your objectives.

Can you imagine the Research Triangle turning into another Silicon Valley?

What you have in Silicon Valley is a density of serial entrepreneurs and investors. You collide with or bump into people, wherever you go there, who are starting up a new venture, funding a new venture, or looking for the next idea. Here we do not have the same number of venture firms by a long shot. We do not have the same number of serial entrepreneurs, people who have done a company, say, three different times. Still, we are rich in intellectual capital.

We have a lot of the raw materials, but we haven't been all that intentional about making something with those materials. It's going to take time.

You have the unusual background of having worked with both Bill Gates and Steve Jobs. What did you learn from them?

My experience early in my career was with both of them at an early stage in their companies. I got to see the common theme of an incredible passion, along with the relentless hard work that goes into making a start-up company successful. A lot of people think somebody just comes up with a great idea and, with some tweaking, everybody jumps on board. That's not true; it's incredibly hard work. And both of those individuals were among the hardest-working people I've ever been around, as were their teams.

Steve Jobs felt that technology was just a tool. It was a tool to enable people to build beautiful photographs, to listen to beautiful music, to make movies, to communicate in a document, all of that and more. He broke new ground in all of those platforms because he came from a liberal-arts background; for him it was about the intersection of liberal arts and technology.

What was most memorable about your interactions with Gates?

With both of them, I was allowed to be ambitious and to take risks. I started the education division at Microsoft, and Bill Gates approved that because I was willing to quit if that's what it took to make

it happen. I didn't know any better; I just felt that if I couldn't set up the division there, I'd go find someplace where I could. And he loved the idea that I was willing to put my job on the line and just go for it.

And Jobs?

Once I was on a company retreat, and Steve said something like, "Tell me a story from your life when you were losing." And he just loved this story. When I was in high school, I was a track runner. Back then there weren't any track teams for girls, so I was on the boys' track team. I never won a race. Not only didn't I win, I always came in last, except for the final race, which was on my home track. That was in my senior year, and I set out to beat one boy. It's the last few yards, and he is being cheered on by the fans: "You gonna let a girl beat you?" He took off like hell—no, he's not going to let a girl beat him. And I reached out and I grabbed his shirt, and I pulled him back. So I crossed the finish line and beat that one boy.

Well, I was disqualified. And I'm not advocating cheating. But I wanted to win so badly, and the opportunity was right in front of me. And the story has become part of what I see as a fundamental tenet of what you need to be an entrepreneur. You might lose every race, but you have to have the ability to keep getting into the race and the ambition to go for the win.

The interview was conducted, condensed, and edited by Robert J. Bliwise.

OBSERVER

Leaps and Bounds

Duke's largest student production is a showcase of unbridled talent.

In the wings of Page Auditorium crowd a few hundred students, filling every inch of backstage space with nervous energy. Pants and shirts go flying across the backstage halls and deodorant gets sprayed liberally as students practice a quick costume change. Others find corners to stretch muscles and rehearse intricate spins. Weaving in and out of the throng are sophomore Ajay Parikh and junior Ashvin Kapur, who are rounding up the approximately 300 seniors who are due on stage for the next performance. Everywhere you look, students of every ethnicity whisper and bounce, waiting for their moment in the spotlight.

For many, the next two nights in November will be the first and last times they will perform on a stage at Duke. They've put in months of practice and planning to come to this, the final rehearsal before the largest student-run performance on campus. And, no, it's not Hoof 'n' Horn or a cappella or improv.

Ladies and gentlemen, this is Awaaz.

Awaaz found its humble beginnings in 1985, when a few students put together a small show in the Giles common room to celebrate Diwali, the Indian festival of lights. By 1999, Diya, the South Asian

students association, had renamed the festival "Awaaz," a Hindi word meaning "voice," and moved the show to Page. Though the show primarily highlights Duke's three Indian folk dance groups—Lasya, Raas, and Dhamaka—it has gradually grown to include other dancers and other ethnic traditions. Today, Awaaz includes a cultural and artistic smorgasbord that spans the globe.

But more than just a celebration of South Asian culture—or even culture, generally—Awaaz has become an outlet for the creative energy of Duke's broadly talented

Dress rehearsal: Members of the Class of 2012 run through the Senior Bhangra, Awaaz's closing number.



students. More than 600 students are participating in Awaaz's November 2011 show, spanning a range of experience and artistic ability. On one end of the spectrum are the veterans of Duke's performance circuit, students in Sabrosura, DefMo, Duke Chinese Dance, or one of the a cappella groups that has performed at Awaaz in recent years. In the middle are the newer groups still discovering their identities, such as Stop Motion, a break-dancing

committees dedicated to various aspects of the show. They began assembling the teams within the first weeks of school. There's a ticketing committee, which sells the show to friends and family across the country. (The show routinely sells out the 1,232 seats in Page for its two shows each

Prasada and Dave, who have been involved in Awaaz for several years, saw emceeing as an opportunity to do something out of the ordinary. "Writing a script is very different from anything I've ever done," says Prasada. Neither Dave nor Prasada ever intended to act, but after years

"It's something I've secretly always wanted to do."



Cultural smorgasbord: Originally geared toward South Asian dance, Awaaz has expanded to include multicultural ensemble DefMo, above, and Duke Irish Dance, right.

group in its fourth year; Dhoom, a two-year-old hip-hop and Bollywood fusion troupe; and Duke Irish Dance, also in its second year.

At the other end are students with no performance experience at all who join "lottery" dances that are open to anyone. Lottery dances bookend the event; the opening number is reserved for freshmen, while the closing dance, lately known as Senior Bhangra, brings seniors together to learn and perform a bhangra routine.

Sprinkled between are skits, video clips, and more dances, all produced, choreographed, and performed by students. Put it all together and you have a campus-wide culture jam—a free-flowing event to break up the monotony of fall-semester midterms.

Backstage, Parikh and Kapur race around the narrow maze of hallways, shuttling messages to the tech team and the performers. Dancers gather around stage entrances, still practicing moves, while others try to duck out of the way. It's the last chance to iron out all final logistical details.

As Diya's codirectors of the 2011 show, Parikh and Kapur already have spent months working on Awaaz—holding auditions, contacting performers, and recruiting students to work on the array of

year, with proceeds going to charity.) There's a food committee that arranges a catered feast in the Great Hall prior to the performance. The tech committee manages lighting and sound. Publicity and decorations committees are deployed to design artwork and branding around the theme of the performance. And, of course,



there's coordinating the myriad student groups who want to participate.

The activity peaks during late October, a time the students working on the event affectionately call "Awaaz time." In the last two weeks of preparation leading up to showtime, "everyone rehearses, like, every day," says Sahil Prasada, a junior majoring in biomedical engineering. Prasada and Purva Dave, a senior majoring in chemistry, are the emcees this year, meaning they are charged with sewing all the threads of Awaaz into an entertaining, if not always coherent, tapestry.

Typically, this means writing and acting out a collection of skits, which often riff on a film in the zeitgeist. This year's theme is "The 40-Year-Old Desi" ("desi" being a term for a South Asian person in America who might not be especially hip). The emcees follow the gist of the Steve Carrell comedy, with Dave attempting to help Prasada land a date with Tara Iyengar, a junior and external president of Diya.

of being involved in Awaaz as dancers or technical managers, both were excited to try something new. "It's something I've secretly always wanted to do," says Dave.

It's easy to see the students' enthusiasm for trying new things. During rehearsal, certain faces reappear. Dave and Prasada pop into a few dance numbers, including a lottery dance that Prasada co-choreographed. Dave plays guitar in a musical ensemble and joins the DefMo performance, too. Kapur takes a break from directing backstage traffic to join Dhamaka, practicing their high jumps before taking the floor for their lengthy Act I finale. Later, Parikh slides into an act called "Second Hands"—an all-percussion group with a mix of South Asian and Western drums. Diya board members Komal Patel '13 and Gargi Bansal '13, who co-produced Awaaz in 2010, flit between multiple dances, as well.

Parikh smacks another student's backside as a new round of performers takes the stage for the second act. The team cheers and hollers with smiles so wide they might fall off their faces. In the audience, the glow of laptops dissipates as seniors line up to grab their Senior Bhangra T-shirts and head backstage. Dyuti Mahendru, Diya's internal president, hands them out, still dressed in a business suit from a dinner with her future team at Deloitte, where she will work after graduating. Once the T-shirts are handed out, she'll slip backstage to change and join the rest of her class on stage in the dance she helped choreograph.

It's early enough in the year that the hours racked up in rehearsals and preparations aren't pressing too heavily on academics, and senior nostalgia hasn't quite kicked in yet, either. The performers, who start cheering themselves on once they are on stage, are just there to have fun. It's as simple as that. As Mahendru says, "Everyone loves Awaaz."

—Elissa Lerner, photos by Megan Morr



Lessons in Perpetual Motion

Mike Krzyzewski learned the hard way that he can't be the center of the wheel for every aspect of Duke men's basketball. And that may be the secret to his enduring success.

By Bridget Booher

Something was missing in Mike Krzyzewski's yard. A gap between the William Penn barberry and an English holly created a discordant note in the otherwise harmonious landscape he'd composed. So on a Wednesday morning in mid-December, while members of his Blue Devil basketball team were busy with final exams, Krzyzewski drove to a Durham gardening store in pursuit of a burgundy-colored, deer-resistant *Pieris japonica* to fill the void and complement the color palette he'd orchestrated.

For a man whose intensity and drive are legendary, midweek flower shopping, especially during basketball season, may seem an odd errand. Although the team was in the middle of a week-long lull for final exams, Krzyzewski had plenty on his to-do list that day, including a doctor's appointment, a workout, sev-

eral interviews, a team meeting, and a two-hour special edition of his weekly satellite radio show, broadcast live from Cameron Indoor Stadium. So why the botanical detour to peruse early-winter *japonicas*?

"I love nature," says the energetic coach, who turns sixty-five in February. "I love getting dirty and planting things and working on our land. Probably the only stores I go to in Durham anymore are gardening shops. I have good friends in these places."

Mickie Krzyzewski has taken to calling basketball season "the black hole" because it consumes virtually everything else in its path. But for her husband and her family, the 2011-12 season represented an even more formidable vortex. Just three games into the season, the Blue Devils defeated Michigan State in Madison Square Garden to earn Krzyzewski his 903rd victory as a college head coach, the most ever in men's Division I history. There were



On the Up and Up: Krzyzewski in the locker room with the 1983 team

Duke University Archives

commemorative videos and posters, and countless visits and congratulatory calls from friends and former players. *Sports Illustrated* named him Sportsman of the Year, along with Tennessee women's coach and Sportswoman of the Year Pat Summitt. The usual flood of media requests that flow in during December turned into a tidal wave.

It's been quite a ride for a man who, thirty-two years earlier, had needed to slowly spell his name for a handful of reporters covering his introductory press conference. Krzyzewski has won four national championships and virtually every award his profession bestows. Generations of players credit him with shaping their character, instilling leadership, making them men. He's coached Team USA Basketball to Olympic gold in 2008 and will lead them again in 2012. CEOs seek his leadership advice. Hard-core fans pony up \$10,000 each to participate in K Academy, a five-day basketball fantasy camp held every summer. Admirers from around the world send e-mail messages, letters, autograph requests, and gifts. Sincere young men write asking what they need to do to play for Duke and Coach K.

But had it not been for the dark days of a very different season seventeen years ago,

it's unlikely Coach K would be enjoying what he calls a "tsunami of success." He might not even be coaching Duke basketball. The breaking down and rebuilding of Mike Krzyzewski was a pivotal point for a man who's dedicated his life to winning basketball games. Accustomed to controlling every facet of his program, he had to learn how to let friends and colleagues take on some of the heavy lifting of running a high-visibility, multimillion-dollar franchise. In doing so, he has achieved even greater success on the court. And he's developed a deeper and more nuanced appreciation for those quiet moments of contentment that most of the world never sees, from celebrating the arrival of his eighth grandchild in January to cavorting with his yellow lab Blue to finding the perfect *Pieris japonica*.

A ROCKY START

My name is Tom Butters. I'm the athletic director at Duke University, and I have the awesome responsibility of replacing Bill Foster as the basketball coach of Duke," said the voice on

the other end of the phone. Standing in the living room of the red-brick duplex in West Point, Carol Marsh "Mickie" Krzyzewski asked Butters to hold the line and handed the call to her husband, Army head coach Mike Krzyzewski.

It was March 1980, and Foster had just announced he was leaving Duke to take the head coaching job at the University of South Carolina. Rumors began swirling almost immediately about which college coach would be tapped to take over a program that had made it to the NCAA finals just two years before. Newspaper columnists speculated about a short list of coaches, including Boston College's Tom Davis, Old Dominion's Paul Webb, Mississippi's Bob Weltlich, Oklahoma's Dave Bliss, and Duke assistant coach Bob Wenzel. The name Krzyzewski was never mentioned.

Butters admired Indiana University coach Bobby Knight, and part of his interest in Bliss and Weltlich was that they'd been on Knight's coaching staffs at Army and Indiana. Former Blue Devil guard Steve Vacendak '66 tipped Butters off to another Knight protégé. Mike Krzyzewski had played point guard for Knight at West Point and later served as an unpaid graduate assistant on Knight's staff at Indiana. The

thirty-three-year-old coach was in his fifth year at Army, where he had transformed a team that was 3-22 the season before he arrived, leading them to two appearances in the NIT.

Butters and Krzyzewski spoke at length. An interview was scheduled for March 13 in Kentucky, where Duke eked out a one-point win over the Kentucky Wildcats in the NCAA Eastern Regionals.

Other schools had already taken notice of the young coach. About the same time Butters came calling, Iowa State had offered

know what I was getting into—the competitiveness and the talent level.” He later compared the experience to driving in Times Square after having only toolled around Durham.

The honeymoon period was brief. Losses mounted. Krzyzewski had known he was going to have a rough start—he’d been hired late enough in the season that he didn’t have time to recruit—but every defeat stung. At the end of his first three seasons the Blue Devils were 38-47. Iron Dukes members implored Butters to fire

events soon became a 24/7 phenomenon, and intercollegiate athletics became big-time entertainment—and big-time business. By the time Duke won back-to-back NCAA championships in 1991 and 1992, “we were riding a wave of popularity,” says Krzyzewski. “We just hit it at the right time.”

At the time, no one could predict that the link connecting Duke University and Coach K would evolve into a long-term, symbiotic, and ultimately inextricable relationship.

“I knew I was a surprise to everybody.”

Krzyzewski its head coaching job. But after that first interview with Butters, despite having no guarantee of a second interview, Krzyzewski thanked Iowa State for the offer and declined.

“When the Duke opportunity came up, even though I knew it was a long shot, I realized that was the type of school I wanted to be part of,” says Krzyzewski. “I thought it would be very much like West Point, and it was in the ACC, and so I turned the other job down.”

Butters couldn’t get Krzyzewski out of his mind. There was a second interview and then a third on campus. The story’s been told of how Krzyzewski was already at the airport to catch his return flight home when Butters realized with utter clarity that he’d found his man. Krzyzewski was brought back to Duke and offered the job, which he accepted on the spot, without asking the salary (around \$40,000).

On Tuesday, March 18, the *Durham Morning Herald* ran a column titled, “Duke’s New Coach? He Begins With ‘W,’” which speculated that the next coach would likely be Weltlich, Wenzel, or Webb. Butters was quoted in the article saying, “There are no other people we are considering.” Later that same day, a press conference was held announcing Mike Krzyzewski as Duke’s new basketball coach.

Nearly thirty-two years later, when asked what that earnest young guy was thinking at that inaugural media event, Krzyzewski smiles and shakes his head slightly. “He should have been thinking about how naïve he was, and how green. I knew I was a surprise to everybody. I’ve always had a kind of spirit that I could win and that I would be willing to do whatever it took ethically to win. But I really didn’t

Krzyzewski. One letter writer told Butters he should have hired an American. “That stuff got me really angry, but I didn’t go home every day thinking I was losing my job,” Krzyzewski says. “I knew I had Tom on my side, and President Sanford, and [vice president for business and finance] Chuck Huestis, [former chancellor] Ken Pye and [vice president for government relations and university counsel] Gene McDonald—I mean, those are the people who started the university on the track where it is today, and I knew that they believed in me. They were committed to me when it wasn’t fashionable.”

Krzyzewski’s program soon turned a corner. Simultaneously, the university was transforming itself into a nationally ranked academic and research institution. In 1984, the Blue Devils received their first NCAA bid under Krzyzewski’s leadership, and Duke’s campus was the cover image for the *New York Times Magazine* article on America’s “hot” colleges. Two years later, the Blue Devils made it to the finals of the NCAA Tournament.

“For a while I never thought I’d leave West Point, so when I came to Duke it wasn’t like I was using it as a stepping stone,” he says, insisting that there was never a master strategy for his career, no calculated three- to five-year plan. “I never thought that far in the future. It was just let’s try to win, let’s try to build a program and go from there.”

The 1980s also saw the explosive growth of cable television, including a soon-to-be sports media powerhouse called ESPN. In 1982, ESPN broadcast the opening rounds of the NCAA Tournament, the first time those early games had ever been aired on television. Televised sporting

THE INTERVENTION

Six days into 1995, Mike Krzyzewski struggled to get out of bed. Since his back surgery the previous October for a herniated disk, he’d given up racquetball but little else. The physical setback was an agonizing distraction to Krzyzewski, whose obligations and aspirations had accelerated exponentially since Duke’s back-to-back NCAA championships. Instead of taking it slow for the six- to twelve-week recovery period his doctors recommended, Krzyzewski threw himself right back into work—first at home, reviewing game videos until the early hours of the morning, and then, ten days after he got out of the hospital, back on the court.

As the team racked up six wins and one loss in November and December, Krzyzewski found himself in a constant state of exhaustion. He couldn’t sleep. The travel and logistics of an end-of-year trip to Hawaii for the Kraft Rainbow Classic left him physically and mentally drained. By the close of 1994, he’d lost fifteen pounds and couldn’t move without excruciating pain. On Monday, January 2, the Blue Devils beat South Carolina State. Two days later, they fell at home to Clemson, 75-70. On Friday, Krzyzewski could barely get dressed. Mickie had seen enough.

“It was horrible,” she recalls. “I don’t do ultimatums. But as he was walking out of the house, I told him that I had made a doctor’s appointment for him at 2:30 that afternoon, and he needed to be there. He said, ‘I have practice at 2:30.’ I looked at him and said, ‘Be at the doctor’s office or don’t come home.’”



Mike looked at Mickie. She held his gaze. He turned around and walked out the door.

As the morning gave way to afternoon, Mickie fretted. With no word from her husband, she drove to the appointment with a frantic mantra circling in her mind: *please make him be here, please make him be here, please make him be here*. She knew that if he didn't show up, she would have to follow through on her threat. *Please make him be here.*

Krzyzewski's orthopaedist was John A. Feagin Jr. M.D. '61, whose office was in the Finch Yeager Building, overlooking Wallace Wade Stadium. As Mickie pulled into the parking lot, her eyes scanned the cars. She spotted Mike's and succumbed to a wave of emotions—relief and gratitude, of course, but also fear. Fear of a dire diagnosis. Fear that he might lose his will or ability to coach. Fear of what might happen to him, to her, to their family, if he could no longer do the very thing that defined him professionally.

Happy at home: Away from the court, Krzyzewski relies on his family, gardening, and cavorting with yellow lab, Blue, to decompress.

Mickie got out of her car and made her way to the exam room, where Mike was already waiting. He reached out and grabbed her hand. No words were spoken.

When Feagin walked into the room, he took one look at the hobbled forty-seven-year-old and knew the coach needed immediate help. Feagin had been the team doctor for the football and basketball squads at West

Point when he first met Krzyzewski, then a nineteen-year-old point guard. The two men had developed a friendship that had spanned nearly thirty years. Feagin knew that there was more going on than physical distress. "When you are that immobilized with pain," he says, "you don't know if you have cancer and are going to die, or if you have surgery whether you will come back or not." So Feagin—himself a West Point grad—framed his advice in a way Cadet Krzyzewski could grasp.

"You can't survive at West Point without prioritizing," says Feagin. "This was the

He's developed a deeper appreciation for those quiet moments of contentment that most of the world never sees.

first time that Mike had faced his own mortality, because the pain brought him to his knees. So we talked about getting his priorities straight—and getting well was *the* top priority."

But Mickie wasn't taking any chances. She staged an intervention that included Feagin and three people she knew her husband respected—psychiatrist Jean Spaulding M.D. '72, former Duke president and psychiatrist Keith Brodie, and Center for Living director and nephrologist James Clapp. "There were five us, like a basketball team," Mickie says. "One on one, Mike can be stubborn or intimidating or combative, but there were five of us on the team, and he couldn't win. We put him in the hospital that night."

On January 22 that year, Krzyzewski told his team he would be out for

the rest of the season. He offered his letter of resignation to Butters, who refused to accept it. But he was not a compliant patient. "He was just miserable," says Mickie. "It was not a good time. It was not relaxing, and it wasn't pleasant. And then Duke went on a slide and the team started losing. He felt so guilty about that. Here he was, the military officer who had deserted his troops in the midst of the war. He was killing himself over that."

The most frightening aspect of that period, says Krzyzewski, was the complete absence of vitality. "Usually I can snap back,"

he says. "I mean, I'm on all the time. But I was drained. I didn't have any energy or any feeling. How do you fight without those two things? The two major things I needed were missing, and I didn't know if they

would come back." He also was haunted by the loss of his close friend Jim Valvano, who had died of cancer just two years earlier. Valvano had been hired by N.C. State in 1980, the same year Krzyzewski came to Duke—two Northerners, a Pole and an Italian, shaking up the South—and the two had forged a bond that transcended basketball.

It was obvious that Krzyzewski needed to rethink how he ran his program and, by extension, his life. At Mickie's urging, he took up gardening. Time-management experts were consulted. Additional staff members were hired at the basketball offices to handle the program's increasingly complex logistics. New phone systems were installed. Krzyzewski embraced the idea that in order to make his program successful for the long haul, he could no longer be responsible for every aspect.

"If you had a wheel, with spokes all coming out of the center, that was the way I ran my program," he says. "I was the center of the wheel, and everything ran through me. When I was knocked out, when the center of the wheel goes, the wheel goes. Quite simply, this is how I changed. I built a new wheel, and I connected this point with that one and that one with this one. Some of them went through me. But you could take me out—are you getting the visual here?—you could take me out, and it would still work. Once I figured that out, it helped me immensely."

Winter turned to spring. Krzyzewski grew stronger. His energy returned and his excitement to get back in the game was

THE LAST LAUGH

Early in his Duke career, Mike Krzyzewski was called in to Tom Butters' office. The athletics director suggested that Coach K might consider smiling more on the sidelines, since his fervor was off-putting to people in the bleachers. "I'll smile when we win," Krzyzewski told him. "I'm not going to be something I'm not. I'm not going to be a phony."

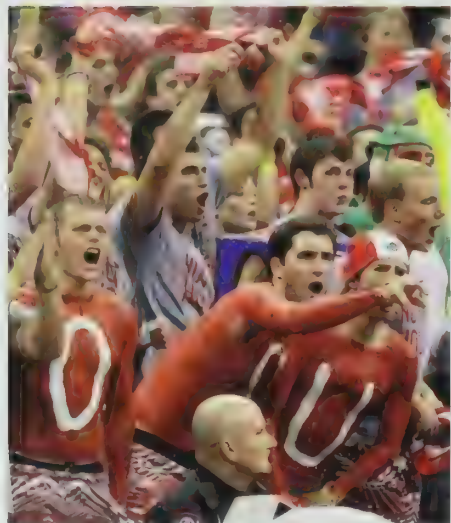
During a satellite radio show in December, Krzyzewski said that his tough façade works to his advantage. "When I go talk to groups, if they only know me from watching me on the sidelines, they think I'm going to be really stern. So I can tell a joke that's like, a two, but it'll go over like it's a ten."



Intense from the bench: Coach K's game face

HATERS GONNA HATE

In early December the satirical news outlet The Onion posted an article on its website with the headline: "Excited Mike Krzyzewski Says Duke Squad Hasn't Been This Unlikable in Years. The post included a faux quote by Coach K: "Obviously, we set the



Hostile ground: Ohio State fans berate the Blue Devils during Duke's loss to the Buckeyes earlier this season.

pace early with my all-time wins record and the never ending, fawning media hoopla over that, and I think we've been able to stay consistently repellent since then."

Blue Devil fans are used to being reviled. Read any online article about Duke basketball, and you can almost predict the vitriol that certain readers will churn out: blasting the team for being elitist snobs, having the referees in their pocket, getting away with blatant fouls, flopping. Or hurling invectives at Coach K because he cusses too much, doesn't recruit players with "street cred," has anger issues, is overpaid.

For his part, Krzyzewski insists that things aren't nearly as bad as they were a few years ago. "Part of it is me being the national coach for the USA Team that won the Olympics. And part of it was the 2010 Duke National Championship team: it was tough to hate anyone on that team. I mean, come on, you're going to hate Jon Scheyer?"

Krzyzewski says he's not distracted or bothered by the haters. In fact, it affirms that he's doing something right. "It's not that people hate us, it's that they hate the fact that we win. And I'm okay with that."

more intense than ever. His friend John Feagin recalls a line from Hemingway's *A Farewell to Arms*: "The world breaks everyone and afterward many are strong at the broken places." That experience made Mike stronger."

"It's too easy to say that I micromanaged or didn't delegate enough," says Krzyzewski. "I don't believe in the word delegate. I believe in the word empower. I was not empowering people before, but once I connected the spokes in a different way, it became everyone's wheel. That's why we're so good now. We're better than we were then. I'm better. And that will never happen to me again. More important, it will never happen to our program again."

THE DUKE BRAND

In the summer of 2004, word spread like wildfire that the Los Angeles Lakers had offered Mike Krzyzewski a five-year, \$40 million package to leave Duke and join the pros. Coach K had entertained other overtures, from the Celtics in 1990 and the Trailblazers in 1994. But this was the Lakers, one of the

most successful teams in the NBA, led by Kobe Bryant, whom Krzyzewski had recruited in high school. The prospect of losing Coach K sent fresh waves of panic throughout Devildom.

Conspiracy theorists argue the Lakers offer was timed to make new President Richard H. Brodhead assure Krzyzewski of his estimable position in the university hierarchy. But the interest from Lakers general manager (and former UNC stand-out) Mitch Kupchak was genuine. Bryant, who had remained close to Krzyzewski through the years, called to encourage him to consider the offer.

Even in the midst of those early turbulent years at Duke, Krzyzewski had never been tempted to consider moving to another university. But the prospect of coaching some of the best professional players in the world was a powerful enticement at that moment in his life. After consulting with his family and a handful of friends, including Tom Butters, Krzyzewski decided to turn down the offer. "Duke has always taken up my whole heart," he explained at the time. (The following year he would get his shot at coaching the pros, including Bryant, when he was named head coach of the USA Basketball men's team.)

Krzyzewski knows that there are those who decry the fact that he is better known—and is now better paid—than any of the four Duke presidents he has served under. A Google search on "Coach K" yields more results—17 million and climbing—than those of Terry Sanford, Keith Brodie, Nan Keohane, and Richard Brodhead combined. It's a distinction he doesn't take lightly.

"Duke branded me. It gave me prestige," he says. "I'm the Duke coach, so no matter what, I am affiliated with an outstanding university. I am Duke every second of my life. That's a big responsibility but also a big honor."

Whenever Krzyzewski talks to faculty members, he emphasizes that "Duke basketball is not the most important thing here. I know that. I work for Dick Brodhead and [athletics director] Kevin White. But Duke basketball is the biggest marketing arm of this university."

Think about walking down Fifth Avenue during Christmastime, he says. It's magical. You get to Saks Fifth Avenue, and the breathtaking window displays stop you in your tracks. "You look at them and say, wow! How did they do that? So you walk in the store and you go to the first floor, the sixth floor, the seventh floor. Well, we're the window of our university. We bring a lot of people in, and then they find out what's happening in medicine, law, business, history, English. As long as we understand that, and use it, it's nothing but good. I've understood that from the get-go. Getting the right people to come in the door opens up development, research, faculty wanting to be here, recruitment, enrollment—look, it opens up everything. We know we're part of that team."

To capitalize on Duke basketball's success, Krzyzewski helped launch the Legacy Fund. Established in 2000 and chaired by Grant Hill '94, the Legacy Fund is an effort to fully endow the basketball program as well as capital improvements to basketball facilities. The Krzyzewskis donated \$1 million to the fund in honor of Mike's brother Bill, who retired from the Chicago Fire Department at the rank of captain. To date the fund has raised more than \$60 million, enough to endow twelve scholarships, a graduate coaching position, two student managers, and an assistant coach. Proceeds from the K Academy fantasy camp also are directed to the fund.

"I want to make sure that when I'm gone," he says, "the wheel keeps rolling."

LEADERSHIP AND FAITH

It was a muggy evening in August 2011 at Raleigh-Durham International Airport, and the assembled travelers were getting restless. An entourage of Blue Devil staff, student-athletes, coaching and athletics staff, and paying boosters should have been airborne, on their way to a thirteen-day international trip to China and Dubai. But there had been an electrical problem with the plane coming from Miami. As the hour grew later, a travel-agent representative, trying to be helpful, suggested that one option might be to put the team on a commercial flight so they could fly ahead.

"When that happened, immediately there was a sense of deflation among the entire group that was palpable," says Sim Sitkin, a professor of management and faculty director of the Fuqua/Coach K Center on Leadership and Ethics (COLE). He watched as Krzyzewski double-checked with athletics director Kevin White to make sure it was not a plan that had been authorized by Duke officials. It wasn't. So Krzyzewski called the group together and addressed them as one.

"We're a family, and we're staying together as a family," he told them. "Either all of us are going or none of us is going. We're not splitting up the family, and we're not leaving anyone behind. We'll keep you updated but we're all going as a group."

"Instantly," says Sitkin, "the energy level went back up through the roof." It was a perfect illustration of why Krzyzewski's instincts are so valuable to Sitkin and his colleagues at COLE. Sitkin says that he's often observed Krzyzewski having extended conversations with people where sports will not even come up.

"He can use references to the business and government world, a variety of arenas, to make his point," says Sitkin. "He is quite capable of not referring to sports at all, and that's uncommon for a coach. But it's common for him, which is what makes the collaboration between Athletics and Fuqua possible. As Mike describes, he's a leader first, an educator second, and coach third."

The Krzyzewskis are active in a number of community and national organizations, including Duke Children's Hospital, the CEO Roundtable on Cancer, the Jimmy V Foundation for Cancer Research, the Na-

tional Association of Basketball Coaches Foundation, Coaches vs. Cancer, the Brain Tumor Center at Duke, and the iHoops Advisory Board. Coach K's biggest point of pride is the Emily K Center, named for his mother. Located on West Chapel Hill Street in Durham, the center focuses on developing and nurturing the academic, character, and leadership potential of economically disadvantaged children.

The center is affiliated with the Immaculate Conception Catholic Church, where Krzyzewski attends 7:45 mass every Sunday morning when he is in town. Before every game, he says a prayer: "Please, God, help me do my best, help me be myself, and help

"I am Duke every second of my life. That's a big responsibility but also a big honor."

me lead with my heart." Along with his West Point training, Krzyzewski's faith is an unshakable part of his foundation and informs his abiding sense of obligation.

"We have an amazing platform, and shame on us if we don't use it," he says. "I'm not trying to be ultra-religious, but to whom much is given much is expected. We're the lucky ones. As a human being, none of us is better than any other human being. My mom used to clean offices, and she's as good a person as I've ever met in my life. So I think I am very grounded, and my faith and my family help keep me that way."

Powerful leaders run the risk of being deified—or vilified. Every day of his life, Mike Krzyzewski is acutely aware of how many people are depending on him or looking to him for guidance. Due in part to his involvement with cancer research initiatives at the local and national level, Krzyzewski often is approached by those battling the disease or by their loved ones. A dying patient asks for tickets to a Duke basketball game. A father whose child was diagnosed with a brain tumor asks Krzyzewski which doctor he should see. Leadership at that level is a daunting responsibility.

"It's lonely," he says. "You have the human emotions all of us have—afraid, nervous, unsure—but you can't let your group know. A leader has to look strong and act strong. Sometimes I have to act it even when I don't feel it. If you're going to be a leader, there are going to be lonely times. Now, if you're lonely all the time, well, then God bless you, you'd better work at something else."

Having family close by helps. All three

daughters—Debbie Krzyzewski Savarino '93, Lindy Krzyzewski Frasher, and Jamie Krzyzewski Spatola '10—and their husbands and children live in Durham, and the family gets together often, including a longstanding end-of-season beach trip to the North Carolina shore. Mike and Mickie also travel to Las Vegas every summer, where Mickie parks herself in front of the slot machines and Mike heads toward the video poker games. He also loves music—Broadway shows, Motown, Smoky Robinson, the Delfonics, and the variety of songs used in the videos prepared for each graduating senior.

"Sometimes I am so busy that I just run past my emotions," he says. "Not emotions like anger or excitement, but the emotion of feeling something deep in your heart. At times like that I'll put

on a mix my daughters have made for me or one of the senior [video] soundtracks, and all of a sudden I start crying or get chills. It gets you to stop and feel that emotion."

WHEN IT'S TIME TO LEAVE

The day will come when Mike Krzyzewski announces his retirement from coaching Duke basketball. It won't be because

of a specific number—winning his thousandth game, for instance, or a fifth national championship. Mickie insists that it's not something they really think about, because they are always so focused on what's right in front of them. Mike has promised her that it won't be when he's angry or after a painful loss.

Krzyzewski doesn't miss a beat when asked how difficult it will be for him to step onto the floor of Cameron Indoor Stadium—Coach K court—for the last time as coach. "It would be hard for me to walk away right now because I'm not ready to walk away," he says. "When I'm ready to walk away, I don't think it will be hard. I'll know it's time when I do not want to pay the price to win. In other words, when I don't want to prepare and do the work."

"Look, I could just show up for awhile, and nothing's going to happen to me, except that I would feel like a dirt bag. But when the time comes, I'll know it and I'll feel it. And I won't be taking the whole wheel away. I'll just be taking a part of it." ■



DUKE'S NEW RULES FOR ALLOCATING DORM ROOMS REVOLVE AROUND SMALLER LIVING COMMUNITIES CALLED "HOUSES," AN IDEA BORROWED FROM ITS RESIDENTIAL PAST, WITH A FEW MODERN UPDATES.



At the bottom of the last ridge separating the main part of West Campus from the Edens dormitories lies Keohane Quad. Its open U shape has finally closed with the first dorm on West to open since 2002. Though its exterior matches the Duke brick style of the rest of Keohane, the interior does anything but. Ample single bedrooms easily dwarf doubles in the older Gothic dorms on main West. Bay windows that could comfortably fit a twin extra-long mattress complement a staggering portion of the 150 rooms in the building. Enormous common rooms swathed in warm cherry wood tones branch off into demonstration-sized kitchens and study rooms equipped with floor-to-ceiling dry-erase walls. And nestled beneath the struc-

BY
ELISSA
LERNER

ture is a new glass-encased atrium with doors that slide out to a plaza, some fuchsia arm chairs and plush sofas, and a 103-inch flat-screen television to complete the picture.

This is K4—a dorm and an idea. Students already are raving about its amenities, but what they might not realize is that it's thoroughly a product of the university's new system for housing, which goes into effect this fall.

In launching a new approach to residential life, it helps to have something concrete—like concrete. Like the addition of Blackwell and Randolph, which were shiny, new dorms when East Campus became a freshman campus, K4, in both design and spirit, will help ease the transition to the house system.

The building is split neatly into two houses, one occupying the first two floors

and the other the upper three. Each house has a separate entrance, leading into a sprawling two-story "great room" that is surrounded by bedrooms arranged like courtyard apartments, making it easy for students to see each other in passing. Some rooms are clustered in townhouse-style suites, with their own small living rooms. But while many universities are moving toward apartment-style dorm rooms with private amenities, K4's bathrooms and kitchens remain emphatically communal: All features of the building are meant to enhance interaction and community.

Such an emphasis on smaller, tighter living arrangements is also meant to fix perceived housing inequalities. Antiquated dormitories on West and Central along with the expansion of Pratt's enrollment in 2004 have been exerting pressure on residence life for decades. Independent stu-



Photos Duke Photography

dents have been experiencing an increasingly different residential life from their colleagues and friends in fraternities and other selective living groups. Community—that intangible quality so carefully cultivated throughout the freshman-year experience on East—is often shattered upon the transition to sophomore year.

By creating more cohesive living, Duke hopes to alleviate such tensions. If the idea works—that is, if Duke can successfully re-imagine its residential spaces—Duke can develop new communities and affinities throughout its large and diverse campus.

BUT LET'S BACK UP.

In the old days, campus housing wasn't so complicated. Students were as-

signed to a dorm, and that dorm became their home for the next four years. Men primarily lived on West Campus; women were mostly housed as part of the Woman's College on East. But a growing student body and changing societal norms kept the assignment of on-campus housing in flux. The 1972 merger of the Woman's College with Trinity College required more change as the university experimented with how best to integrate men and women in its housing model.

In the 1970s, Duke added housing on Central Campus. But even with the new space, overcrowding continued in the 1980s. Offices and common spaces in Hanes and Trent halls were converted into dorm rooms, and selective living groups were shuffled around campus to accommodate their grow-

ing numbers. Edens expanded, and new theme houses were created. Then came the campus-realigning decision to move all freshmen to East in 1994, which helped reduce pressure on dorms in West and Central. But it also required entire communities to relocate, effectively ending a residential model where students affiliated with multi-class houses and replacing it with a quad system. (Though ferociously criticized by some at the time, the East Campus concept actually didn't come out of a vacuum: All-freshman dorms have appeared and disappeared several times since 1960.)

A smaller development came in 2002: In response to a report showing significant disparities in the racial composition of dorms around campus, Duke began requiring all sophomores (with a few recent exceptions) to live on West Campus.

In some ways, the house system is a logical progression from Duke's housing past. The plan will create small, cohesive living groups—"houses"—that allow sophomores, juniors, and seniors to root themselves in a stable community, much the way East dorms do for freshmen. Many of these living arrangements already exist: Fraternities and certain social and academic groups have been allocated blocks of rooms for decades where students can return year after year. The house model is an attempt to expand that approach to more students, more selective living groups, and more parts of campus.

But it will disrupt some long-standing housing arrangements. Quad affiliation, in all of its imperfection, began emerging as

ing report from as early as 1958 notes that "600 independent upperclassmen lived in unorganized anonymity" and laments "the disorder, the barbaric conditions of life." In 1994, Duke began allowing unaffiliated upperclassmen to form housing blocks and apply for particular dorms. But that hasn't erased the problem, says Steve Nowicki, dean and vice provost for undergraduate education.

"If a student is not in a social selective, he or she is treated like a hermit and a nomad," says Nowicki. "The student is a hermit, squeezed between frats and other selectives, and a nomad, because of the housing lottery every year."

Housing allocations also have been criticized for favoring some SLGs, particularly

its head. The new housing system is an attempt to "take the best of what current SLGs have and benefit all students," says Joe Gonzalez, associate dean of Housing, Dining, and Residence Life (HDRL). "We can at least offer [independents] the opportunity to have more continuity."

At the most basic level, the plan carves up the 3,912 beds on West and Central into eighty-two self-contained groups of thirty to 100 students. These "houses" don't always comprise a freestanding physical space; in some cases, they are defined to include one or two floors of a dorm or contiguous space in multiple dorms. Every house has a common room, which planners see as essential for building community among residents. Equally important is the

WHILE MANY UNIVERSITIES ARE MOVING TOWARD APARTMENT-STYLE DORM ROOMS WITH PRIVATE AMENITIES, K4 IS EMPHATICALLY COMMUNAL.



Courtesy Duke Housing, Dining, and Residence Life

long ago as 1968, when individual houses began to see value in aligning with neighboring dorms on social activities. Quad federations formed, pooling resources to sponsor concerts, film festivals, and art exhibitions. By 1978, proposals were under way to adopt what was called the Federation Model as the standard for Duke's campus. Yet by 1982, the Task Force on Federations already wanted to de-emphasize their importance. Committees discussed the inequality of resources among quads, leading Duke to establish a joint fund for residential programming to level the playing field. Today, quad councils receive a standard amount of money for programming from students' housing fees, and this will soon be reallocated to house councils.

None of the changes has yet produced a flawless residential model. There has long been a perception, for example, that allowing students in fraternities and selective living groups (SLGs) to create neighborhood-like clusters alienates students who aren't affiliated with those groups. A hous-

ing report from as early as 1958 notes that "600 independent upperclassmen lived in unorganized anonymity" and laments "the disorder, the barbaric conditions of life." In 1994, Duke began allowing unaffiliated upperclassmen to form housing blocks and apply for particular dorms. But that hasn't erased the problem, says Steve Nowicki, dean and vice provost for undergraduate education.

"If a student is not in a social selective, he or she is treated like a hermit and a nomad," says Nowicki. "The student is a hermit, squeezed between frats and other selectives, and a nomad, because of the housing lottery every year."

Housing allocations also have been criticized for favoring some SLGs, particularly fraternities, over others. For decades, sororities had no housing because of a Panhellenic Association pact that ensured all sororities would apply for housing together, or none would. As a result, Greek selective housing, which made up about half of the SLG housing on campus, was almost exclusively male. Responding to that disparity, the steering committee of the 2007 Campus Culture Initiative (CCI), a twenty-four-person panel of faculty members, administrators, alumni, and students, called for an end to preferential treatment for SLGs in housing selection. "The privilege given to selective living groups, and to men in particular, affects campus disproportionately," wrote the committee. "Access to real estate means setting the rules of social engagement, and the university must face the fact that residential space, and control of it, continues to be experienced as gendered and unfriendly to alternative lifestyles because of the way it favors certain groups."

Duke officials heard the suggestion but, in a creative twist, they are flipping it on

fact that houses will mix sophomores, juniors, and seniors in hopes of fostering cross-class connections. The current environment provides few such opportunities. Requiring sophomores to live on West makes it difficult for students of other classes to find housing there. Nearly half of the junior class spends a semester abroad, and when those students return, they often scramble for whatever housing they can find, which is typically on Central. After experiencing these impediments to campus housing, many seniors choose to live off-campus.

Instead, houses will offer rising juniors and seniors a "right of return," meaning they'll be guaranteed a bed in the house if they want to come back for another year. "Our hope is that [students] will want to stay in their house," says Gonzalez. "Ideally, within five to seven years, there should be upperclass houses with meaning, like East Campus houses."

By reconfiguring all of its upperclass beds into houses, Duke also will be able to incorporate a wider range of SLGs. For the



Community building: The first new dorm on West Campus since 2002, K4 features common rooms large enough for all house members to congregate. Other attractions include a demonstration-sized kitchen with dry-erase walls, above, and dorm rooms with huge bay windows, top inset.

first time in Duke's history, all of the university's sororities will have official housing sections. And when the houses open this fall, there will be three SLGs based on cultural affinity—Latino, Asian, and black—also a first for Duke. Though such additions to campus culture are being realized through housing, they are actually pieces of a larger, holistic effort to improve campus life. The residence model and its new living groups are part of a plethora of updates to dining and social spaces, including the upcoming renovations of the West Campus Union and Page Auditorium. But they also already anticipate increased foot traffic through the new K4 atrium and plaza, and a reinvigorated Central.

CONTRARY TO SOME student perceptions, the new house model did not pop up overnight. Its long incubation began with discussions in 2007, following the CCI report's controversial recommendation to abolish housing privileges for SLGs. In 2009, Duke formed a committee

of undergraduate students, administrators, and faculty members to work out the logistics for the new model. Key among these early student contributors were members of the now-defunct Campus Council, a leadership body committed to residential government that has since been merged into Duke Student Government. By February 2011, the committee was far enough along to start sharing elements of the plan with the rest of the campus

through ongoing town-hall meetings. But it wasn't until this past fall when the selection process was imminent that many students took notice.

And when they did, some were not pleased. Throughout September and October, *The Chronicle's* online comments lit up with anger and confusion about the house system. Some students panned the concept as simply an imitation of residential models at Yale and other prestigious universities, where students often stay in the same dorm all their years on campus. Others questioned how unaffiliated students would be assigned to houses and whether existing SLGs would be moved.

Tensions peaked on a Wednesday evening in late October when SLGs and unaffiliated houses received their future campus locations. Although officially billed as a lottery, the process was, out of necessity, much more structured. "It's random with constraints," Nowicki explained in the days leading up to the event. The eighty-two houses created in the new model are not of uniform size. Small- and

Megan Mori

medium-sized houses, accommodating around forty students, exist in far greater proportion on Central Campus and in Craven and Edens. Because the overwhelming majority of SLGs have forty members or fewer—and because sororities applied for housing for the first time—some clustering of SLGs in those areas was inevitable, Gonzalez says. In the final assignment, out of the twenty-seven houses on Central, twenty-one will be SLGs, fifteen of which are Greek. Only six will be unaffiliated.

The process also involved a delicate balance between student desires and institutional objectives. While Duke wanted an equitable process, it also was concerned about maintaining a representative mix of races, genders, and affiliations in residential communities. The overrepresentation of white students on West Campus—one of the factors that led Duke to require all sophomores to live on West—has persisted. In the fall of 2006, West Campus housed 81 percent of Duke's white students, but only 76 percent of Latino students, 73 percent of Asian students, and 58 percent of African-American students.

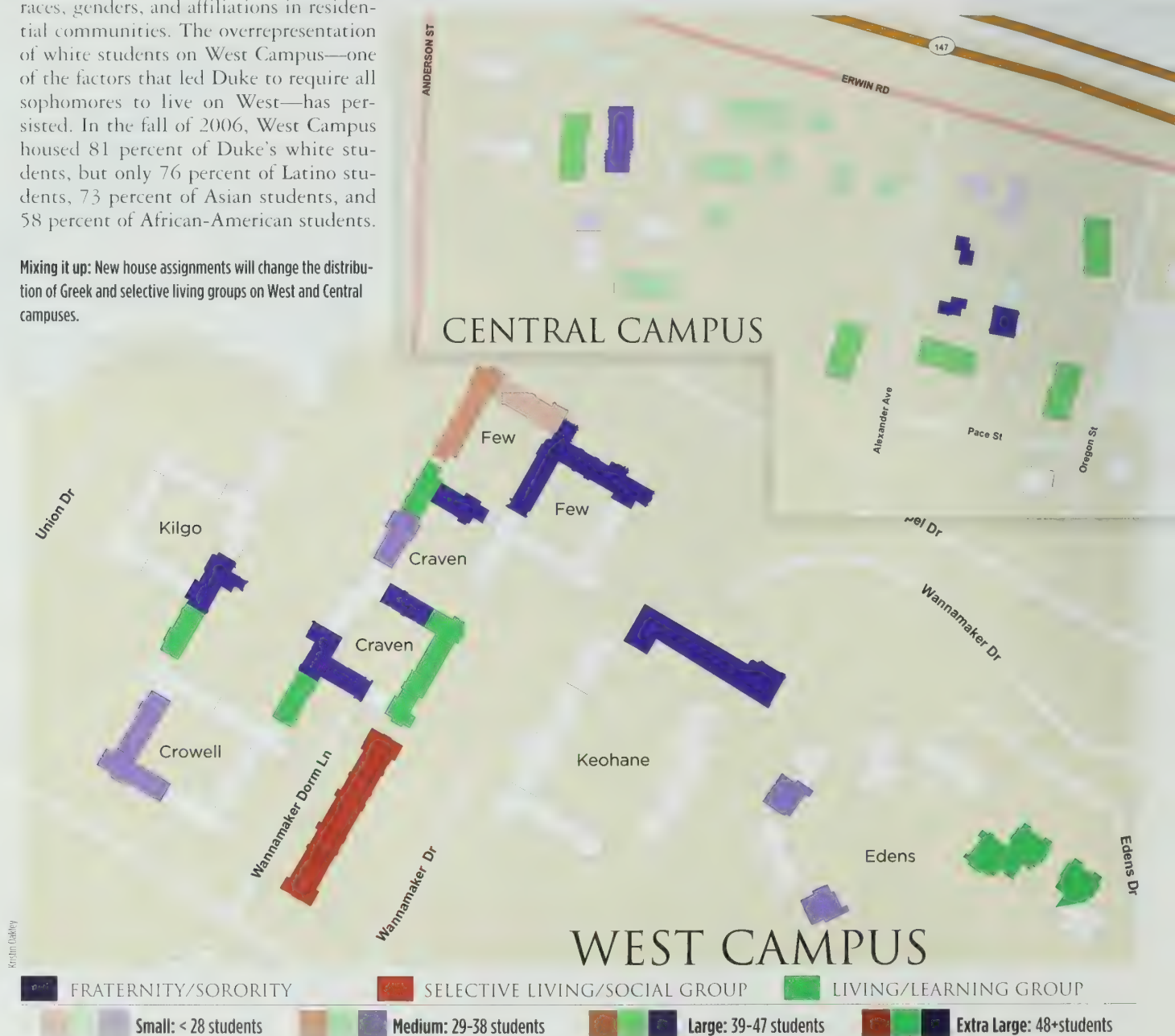
Mixing it up: New house assignments will change the distribution of Greek and selective living groups on West and Central campuses.

Consequently, administrators were concerned about assignments that would have too big an influence on residential culture.

The problem manifested in finding space for Duke's nine sororities, which wanted houses for portions of their chapters but preferred to stay together on one campus. Honoring that request allowed only one viable option: Central. Panhellenic Association president Jenny Ngo, a senior, says many members weren't overjoyed with the choice, as Central is often perceived by students as remote and lacking character. But they are ready to make it work. "Since our number one commitment was to be on one campus together, we committed to Central," she says.

Central already has undergone some substantial renovations—including a new restaurant, clearer fencing and signage, a new grocery store, and a few refurbished apartments—and administrators say its reputation is changing. "Central has really been spiffed up," says Donna Lisker, associate dean for undergraduate education. "What we're finding is that groups that have been assigned to Central love it—they don't want to come back [to West Campus]."

However, Ngo wants to see continued improvements. She hopes to align with other SLGs on Central to bring a proposal to administrators to improve lighting, increase security patrols, and install card-



swipe access in common areas on Central. She also points out the need for more recreation and dining options in the area. "There are only two eateries [on Central] right now, and on Sundays, when all chapters meet, there will be 1,000 women on one campus," she says.

"I think having more sophomores on

tract students of all races. "I do think it can work," she says. "None of us could see any justification in not at least trying it. Other schools have it and with great success, so it's worth the effort."

Junior Derek Mong, president of the Asian Students Association (ASA), says he heard some backlash about self-segrega-

munity only inclusive of those with black skin color, especially when we think about the very diverse African diaspora."

Still, "there's only so much we can do," she says. "It's the responsibility of all of us to take the initiative to make us more aware global citizens. I'm sure it will be different to get members who are not members of the black community to take interest. But we're not interested in pressuring people. The onus also lies on individuals themselves and how we choose to immerse ourselves."

Given the fact that historically many students of color have elected to live on Central, Asante finds it somewhat ironic that the Black Cultural Living Group ended up on the outskirts of Central.

"I can't say it's particularly ideal or what we wanted," she says. "But we're grateful for this opportunity to make the most of it and to fulfill the mission. We're black students; it's what we do anyway. I've learned to appreciate that."

AS WITH EVERY ASPECT of the house system, it will be a few years before any kind of success can be evaluated. It remains to be seen how SLGs will fit into their new spaces, and whether unaffiliated nomads will embrace the house model's communitarian spirit.

But administrators are confident that students will come around—or return—to the concept of house living. "The push-back has only been in the past couple of months, and it's just anxiety about something new," says Lisker. "My expectation is that this will be like East Campus. Before it was implemented, people were *very* upset by this idea and outraged that President [Nannerl O.] Keohane would suggest it. And then within a year, it was the best thing that ever happened to the university."

And the inevitable fact about students is that they are just passing through. Within two years, most of the students disrupted by the reallocation of houses will have graduated, and few will know any system but the new one. Perhaps this system really will stabilize residential life for upperclassmen the way East Campus has for freshmen. Perhaps Central will continue to develop as a social hub. But if those things don't happen, history teaches us to count on one thing: Duke will alter the plan. As Nowicki noted in a letter to parents explaining the house model, "While our buildings may be made of stone, our ideas about campus life are not." Stay tuned. ■

"IF A STUDENT IS NOT IN A SOCIAL SELECTIVE, HE OR SHE IS TREATED LIKE A HERMIT AND A NOMAD."

Central is going to bring some energy and life that it has lacked over the years," says Gonzalez. "I believe many of the students who join houses here will think they got the better assignment. And there's going to be a presence of SLGs on Central at a level that really hasn't happened before. That's going to change the dynamic of Central Campus also."



Megan Prior

tion when ASA debated applying for a house. But the decision to proceed was "pretty simple," he says. "Within ASA, there's always been talk of the lack of Asian-American space on campus, and we thought that a space specifically devoted to Asian cultural issues was definitely necessary, especially given how Duke's undergraduate demographic has been changing so much." (Asian students now comprise approximately one-quarter of the

undergraduate population, and ASA will guide the largest of the cultural houses with approximately forty-five beds.)

Several cultural groups opted not to apply for houses. When board members of Diya, Duke's South Asian cultural group, discussed the idea, no one could come up with positive reasons for creating a South Asian-themed house. The Muslim Students Association also briefly considered applying for a house, "but we thought it was too isolating," says senior Nadir Ijaz, president of MSA.

But experiences vary significantly among Duke's cultural groups, making blanket assessments impossible. Senior Nana Asante, two-term president of the Black Student Alliance, says African-American students see clear value in a cultural living group, a desire articulated as early as the Allen Building takeover of 1969. "It was more than just waking up in the morning and deciding to establish a black culture house. We've been doing research on living groups across the country and thinking critically about the impact and potential of this house, not to mention answering to issues of self-segregation," she says. "By no means is the black com-

THE INCLUSION OF culturally based SLGs is another new dynamic that bears watching. The three houses—organized by the Black Student Alliance, Mi Gente (Duke's Latino student association), and the Asian Students Association—are open to members of any race. Ultimately, the number of beds allotted for cultural student houses is quite small, but they have nonetheless raised some concerns about whether students of color will self-segregate into communities along racial lines. Writing in *The Chronicle*, columnist Rui Dai, a junior, argued that allowing culturally defined living groups "represents a setback for racial and ethnic integration.... It is perfectly acceptable to want to live with our friends, but the racial part of that decision should not become part of the institutional model."

Nowicki expects the houses to be "outward looking." "They should be a beacon, not a refuge, for a language, or culture, or region of a group," he says. Lisker points to the robust African and African-American Studies major, majors surrounding Asian and Asian-American topics, and study-abroad programs like DukeEngage as examples of successful programs that at-

To Infinitude and Beyond

How is computer scientist Luis von Ahn '00 taking the Internet to where it's never gone before? By tapping into its most powerful resource: the millions of people who use it every day.

By Sally Ann Flecker

T

he machines—those great, solemn machines—moving in persistent rhythm through the rituals of their work. That's what the boy breathed in, whether he knew it then or not. He spent most of his childhood playing here—a candy factory in Guatemala owned by his mother's family. Even the apparatus with the least exciting job—the one that wrapped the cough drops, for instance—was a marvel to him. Sometimes he would

look at something—a gummy bear or a marshmallow—and try to work backwards to the system that could produce such a thing. The process was always very clever, beyond any mechanism he could imagine.

You might think the boy who notices such things will grow up to be an engineer or an inventor. And he does, in a way. But what is important here is how he learns to twist and turn his ways of thinking into something every bit as clever as those enigmatic machines. Because that's who the boy becomes—someone who dreams up things beyond what everyone else can imagine. Great minds may think alike. But the greatest minds think in completely unexpected ways. They're the ones who take you where you had no idea you wanted to go. When you get there, you say, of course, how could it have been any other way? And that is exactly what this boy will do.

Bright ideas: In his first two weeks at Carnegie Mellon, von Ahn was awarded a MacArthur "genius" grant and named one of *Popular Science's* Brilliant Young Scientists of 2006.

Justin Weinman



Game changer: Von Ahn wanted a Nintendo but instead got an education.



When Luis von Ahn '00 gives a talk, he'll show on the projector screen the kind of squiggly, hard-to-read word you often have to type to gain access to a site on the Internet. "How many of you have gone on a website where you've been asked to read a distorted sequence of characters like this?" he'll ask his audience. A few hands will clap. Next he asks, "How many of you found it really, really annoying?" There'll be some laughter. Then he'll deliver his punch line: "Okay. Outstanding. So. I invented that." He's got the timing of a standup comedian delivering a monologue, perhaps not what the audience is expecting when they come to hear one of the leading computer scientists of our day.

At thirty-two, he's still ever-so-slightly baby-faced. His Latino inflection is easy on the ear. And oh, by the way, he's the guy who is changing the way that millions of people interact with the Internet.

The truth is he's very down-to-earth for a person who solved one of the biggest problems of the Internet in 2000 as a first-semester graduate student at Carnegie Mellon University. That was when Yahoo called on his Ph.D. adviser, eminent computer sci-

good at discerning characters, even when they're twisted and stretched like the Sunday comics on Silly Putty. Most computers are lousy at it. And so Blum and von Ahn created those funky characters that are familiar now to anyone who's signed up for a listserv or booked an event ticket in the past ten years. They named the program CAPTCHA—Completely Automated Public Turing Test to Tell Computers and Humans Apart. It was an elegant solution to Yahoo's problem—and a landmark moment in von Ahn's career. You can go a lifetime without having an idea that pure and revolutionary. And von Ahn was just getting started. He started thinking bigger.

The boy in the candy factory is also the kid who didn't get what he wanted. Which turns out to be his great good fortune.

What the boy wants, when he is eight, is a Nintendo. What his mother comes home with is a Commodore 64—an early com-

...in one year more than **9,000,000,000** human hours

entist Manuel Blum, for help.

The Internet service was in a quandary. Spammers were using "bots," automated programs, to sign up for thousands of Yahoo's free e-mail accounts every minute. Once the accounts were set up, they were used to send hundreds of millions of unwanted e-mail messages. Yahoo asked Blum how that could be stopped.

Blum and von Ahn put their heads together and came up with the idea of creating a test that would distinguish humans from computers. It had to be a test most humans could pass and computers couldn't. And that was a little tricky. It meant a computer had to administer and grade a test it could not perform itself.

They started brainstorming. Most of the ideas were "crappy," von Ahn says, characteristically blunt about his own work. One idea did have merit. Knowing that computers can't identify images, Blum and von Ahn designed a test in which humans were shown several related pictures and asked to identify a word that described them all. But it turned out people could come up with too many unexpected answers. A horse, a guinea pig, and a monkey could be animals, or maybe pets.

Finally, they landed on distorted characters. People are pretty



puter that you plug into your television. "I hear you can play games on these," she tells him. "This is the one you get."

And you can play games on it, but first, you have to learn how to use a computer. In this case, that means learning the BASIC programming language. Keep in mind that he is at an age when most kids are learning how to multiply two-digit numbers, read chapter books, and follow the illustrated directions for a Lego set. But the boy takes on the challenge. He reads the manual and gets started. Then he goes out and buys some magazines to

learn more. When he knows enough about the computer to play games on it, he talks his mother into buying some. After about five games, she decides they're too expensive to keep buying. That's it, she tells him. We're done.

But he is not ready to be done. He figures out how to get rid of the copy protections so he can exchange games with the other Commodore 64 enthusiasts that he's met in town. By now he's all of ten years old. It's clear that he's got a talent. His mother buys him an IBM PS-2, the kind of computer that is being used in offices and at universities. It's a serious computer, and he is serious about it.

But there is no World Wide Web, no discussion forums to consult. There is a tiny bookstore in Guatemala City. But even when he can find someone to drive him there, it almost never has the book he is looking for. So most of what he learns is because that's what's at the bookstore. Once again, he's not getting what he asked for. He's getting the answers to questions he couldn't have known to raise.

With the success of CAPTCHA, von Ahn wanted to take on similar projects, even though nobody was working on things like it. "It was risky because complete creativity is not highly rewarded in academia," he says. "As much as you want it to be, it's not. You want to ride this very nice wave of being somewhat creative, but not too creative. So I think it required some guts to do something that was a little more outside of the box than normal."

His outside-of-the-box question was this: Was there a way to get people to solve problems that computers cannot yet solve?

Take, for example, the problem of recognizing images. Given a picture of a dog and a picture of a cat named "Dog," a computer can't tell one from the other. So, ten years ago, if you wanted to use a search engine to locate a photograph of a dog, the search would bring up any images for which someone had included "dog" in the file name. You might get hot dogs, dogwood trees,

speck, and licensed it in 2006 under the name Google Image Labeled. Type "dog" into a Google image search today and 182 million pictures of dogs pop up—even a dog on an ancient Greek urn from around 550 B.C.E. But no cats.

The ESP Game marked a watershed in von Ahn's already robust career. That's when he began to toy around with an idea that would change his work—and the Internet. The most powerful part of the Internet didn't have anything to do with computers. It was the people using them. And that was not only an untapped resource, but a seemingly endless one—as limitless as von Ahn's imagination.

Think of this: Von Ahn says in one year more than nine billion human hours are used—wasted—playing Solitaire. What if you could wrangle those hours into something productive, something that served the common good? He saw that as a new challenge for computer science, calling it "human computation." It would bring together the intelligence of humans and computers to solve enormous problems, ones too huge for either to solve alone. Now all he had to do was find a task worthy of the idea.

In Guatemala, although he is an only child, the boy is surrounded by an extended family. Since his mother has eleven siblings, there is a bevy of cousins to play with—so many that later he will say he didn't have the mental energy left

are used—

Wasted

—playing Solitaire.

Dog the Bounty Hunter—but nothing from files named Fido or Lassie.

Von Ahn is a steadfast believer in having fun, even—make that especially—when you're doing work. So he created a game around this issue. Users logged on to the game site and were paired randomly with an anonymous partner. Both players were shown the same image and asked to agree on a label for the image. But you couldn't communicate with your partner—you had to guess what he or she would come up with. Once your labels matched, you earned points and the screen showed another image. You had two-and-a-half minutes to label fifteen images.

There's something oddly compelling about this. Maybe it's the clock ticking away, maybe it's the accumulation of points and the chance to see how you stack up against other players. Maybe it's simply the triumph of finding a match. The game, called the ESP Game, went viral. Von Ahn claims over the course of its run there were 200,000 regular players—many of them playing more than forty hours a week. But the true beauty of the game is the useful work the players were accomplishing.

Every time partners agreed on a label, that answer was noted. Over time, when a statistically significant number of players had come up with that word for the image, it was stored away as a descriptive keyword. If enough people labeled the image of that cat named "Dog" as "cat," then the computer knew not to return it in a search for dog images. Over time, von Ahn says, millions of labeled images were collected.

Google recognized the ESP Game as a game changer, so to

to have many friends outside of his family circle.

His mother has told him since he was young that he would go to the U.S. for college. Even though Spanish is her first language, she speaks only English to him at home so that he will grow up bilingual. Going away to college is not unheard of in Guatemala, but it's not the norm. Most young Guatemalans are expected to live at home until they marry.

In 1996, the boy, by now a young man, enrolls at Duke as a math major. He loves computers, but he loves the elegance of math even more. Still, he takes so many computer courses he almost has a second major in computer science. All those back home who expect that he'll be too homesick to stay he proves wrong—even though he's never had to take care of himself before. He's never even made his own meal, unless you count pouring cereal into a bowl.

Perhaps he's working too hard to notice that he misses home. He always has been an excellent student, but he looks back on high school and feels like he had glided through. Now he makes a conscious decision to put muscle into his studies. He is going to learn "everything," he says. He reads "a gazillion" books—math and computer-science books, but also Spanish literature. It's funny because in Guatemala, he hadn't read literature. Maybe it was the connection to home, the comfort of the Spanish language, that he needed.

Eventually, he decides he'll hitch his wagon to computer science rather than math. It's a pragmatic decision—there are fewer job openings in mathematics departments to be had. But there was more to it than that. Some mathematicians spend their careers working on open problems that haven't been solved in 200 years. What

he heard from computer-science professors was different. It wasn't unusual to hear them say, "I did something today that nobody has ever done before." That, he decides, is what he wants to do.

The floor in the seventh-floor corridor of the Gates Center at Carnegie Mellon is worn a little more than most. That's where Luis von Ahn paces. You can almost set a clock by him. He works in short spurts. Seven minutes, he says, is as long as he can sit at a computer and write. Then he gets up and

Even before the accolades rolled in, von Ahn was pacing the hallway, working on his next big thing. He had found a project as outrageously Herculean as his ambitions—a project that could only be carried out by dint of the masses who log on to the vast, sprawling, amorphous Internet every day.

He had some calculations that intrigued him. The Empire State Building was constructed with seven million human hours—or, as he liked to look at it, 6.8 hours of people around the world playing Solitaire. It took 20 million human hours to complete the Panama Canal, less than a day in Solitaire hours.



The world at his fingertips: von Ahn sees limitless possibility in the vastness of the universe.

paces, comes back, does some work, gets up and paces again. It's very inefficient, he knows, but that's what he does. His team teases him. "It seems like you don't do anything all day long," they say. But his accomplishments say otherwise.

He was one of the hottest commodities on the job market in 2005 when he finished his Ph.D. Microsoft courted him, as did other corporations and universities. He chose instead to stay at Carnegie Mellon as a postdoctoral researcher. The following year he was made a professor. His first week on the job, he was awarded a MacArthur "genius" grant—a \$500,000, no-strings-attached stipend given to individuals who show exceptional promise and creativity in their work. The next week, *Popular Science* named him one of the Brilliant Young Scientists of 2006. The president of the university sent him an e-mail note saying, "What's next week?" When von Ahn didn't earn any unexpected accolades the third week, he e-mailed again, tongue-in-cheek, to say he was disappointed.

If the grandest projects of humanity—say the Great Pyramids of Egypt—took 100,000 people to accomplish, what dreams, he wondered, could you fulfill with 500 million? Could an army of ants move an ocean, one drop of water at a time?

He already had an army of ants—the 200 million people typing in CAPTCHAs every day to prove that they're not a computer. In fact, he's felt more than one twinge of guilt over the ten seconds of a person's time that is being wasted each time they stop for a CAPTCHA. Add those lost seconds together and you have an astounding 500,000 human hours a day. With that kind of brainpower, he thought, you could digitize all the books and newspapers printed before computers came on the scene.

Why can't the computers do that themselves? Well, even the most sophisticated OCR (optical character recognition) software can't interpret all of the words printed back when letters were set by hand. Distorted type, blurred print, and damaged pages cause computers to misread 30 to 40 percent of the words from

books produced before the 1990s, von Ahn says. But if humans can read even the most distorted CAPTCHA, couldn't they also interpret a word that OCR can't?

Enter reCAPTCHA. You've seen this already, too. Instead of one CAPTCHA you must enter, a site has two. The first one tests you against an answer the computer knows. The second is one the computer doesn't. It's not testing you; it's putting you to work. You're reading a word from an old book or newspaper that the computer can't decipher correctly. Instead of wasting your few seconds of time, you've invested it in a cause,

If the grandest projects of humanity—say the Great Pyramids of Egypt—took 100,000 people to accomplish, what dreams, he wondered, could you fulfill with 500 million?

helping put more printed works online.

Google bought reCAPTCHA from von Ahn in 2009. It now offers reCAPTCHA free to any website that wants to use it to improve its security. More than 100,000 websites have it, with 60 to 70 million people transcribing around 100 million words a day. Close to a billion people have participated, whether they knew it or not.

Von Ahn doesn't disclose what Google paid for reCAPTCHA. He just says he will never have to worry about money again.

The young man, for he is still young, is an idea generator. Hundreds of ideas occur to him every day. Most of them are idiotic, he is the first to admit. But when one rises to the top, he sits with it for six months. If he's still thinking about it then, he decides it's worth trying to develop.

Being financially secure has given him a certain intellectual freedom. "I don't want to waste my time on things that I don't think are worthwhile, which is a really nice feeling to have," he says. "If I don't think it's worthwhile, I don't want to spend another second on it. So now I'm only working on things that I think are going to have a big impact."

Some people look at the vastness of the universe and shudder at their own insignificance. Von Ahn looks at the vastness of the universe and sees limitless possibility. So he starts looking at the Internet, the whole of it, and seeing how little of it is accessible to the billions of people on Earth who don't read English. Eighty percent of everything on the Internet is in English. Can he change that? Computers won't be good enough at translating languages on their own for another fifteen to twenty years, he estimates. He can't sit still that long.

And the next big idea is this: Von Ahn thinks he can get 100 million people on the Web translating everything into different languages for free.

By the way, most of them aren't bilingual.

Von Ahn calculates there are 1.2 billion people in the world interested in learning a new language, with five million of them willing to plunk down \$500 for software that will teach them. His latest project, Duolingo, offers a way to learn a new language for free while helping to translate the Web. Or as it says grandly on its home page, you'll be "enabling a wealth of language-shackled information to be liberated for all of humanity."

Private beta testing began in November, and a public launch will follow. At first, the site will focus on Spanish and German, but eventually it will include French, Italian, and Chinese. Easy sentences for beginners; more complex ones for advanced students. You'll learn not only by translating it, but by seeing how others translated it as well. Von Ahn claims that people who have tested it have learned as well as those who have used the leading language software. In

fact, he says that the translations have been as accurate as those by a professional translator.

If Duolingo goes viral, here is a hint of what von Ahn believes it can accomplish. With 100,000 active users, all of Wikipedia could be translated into Spanish in five weeks. Bump that up to one million users, and that task could be accomplished in eighty hours.

"Trying to translate the whole Web into every major language is a really super-crazy, ambitious thing," von Ahn admits. "It's proceeding well. We're pretty confident we're going to be able to do it. But at the end of the day, we still don't know." That's exactly where the boy wanted to go all along, somewhere no one had been before. And he's taking all of us with him. ■

Flecker is a freelance writer and writing coach living in Pittsburgh. She has written on topics from synthetic biology to geography, the Everglades, alpaca ranchers, truffle farmers, scriptwriters, and labyrinth makers for universities around the country.



The Fire That Never Goes Out

A trip to Eudora Welty's River Country reveals the enduring power of human invention—and the importance of the humanities in rekindling the flame.

BY RICHARD H. BRODHEAD

The following is excerpted from President Brodhead's John Tyler Caldwell Lecture in the Humanities, delivered at an event sponsored by the North Carolina Humanities Council.

EUDORA WELTY'S 1944 essay "Some Notes on River Country" begins with this memorable line: "A place that ever was lived in is like a fire that never goes out."

Some years back, I went to see the country she describes. This is the stretch of land west of Jackson, Mississippi, and north of Natchez whose settlements are at once weirdly abandoned yet also weirdly preserved. Its chief sites are Windsor, a mansion near Port Gibson, whose pomp survives only in an intact set of Corinthian columns; Grand Gulf, a thriving international cotton port until the Mississippi washed the town away; and Rodney's Landing, a river town successful enough to have built a series of exquisitely ornamented churches in the 1840s, until the river changed course and left it high and dry.

These are enchanting places, but the average visitor would draw their lesson very differently from Welty. For these are icons of desolation, images of the utter transience of this world's glory. Windsor, once a great house, survives exclusively as a ruin. Grand Gulf, once a boom town, was wiped from the face of the Earth, leaving only the overgrown graves of forgotten entrepreneurs. Rodney's churches still stand, but wholly disconnected from the people who built and used them. Those people have vanished—and lest anyone miss the lesson of the extinction of the human, this town is approached through mile after mile covered exclusively with vines.

So how could she say, "A place that ever was lived in is like a fire that never goes out"? If one thing is true of these places,

it's that their life did go out. And yet, and yet: Welty felt their distant force when she visited, and I experienced the connection when I went decades later. So how was this? Welty's reply is that the spark of "original ignition," having been once struck, lives on: "Sometimes it gives out glory, sometimes its little light must be sought out to be seen, small and tender as a candle flame, but as certain." But in truth, these places did not simply stay in life: They were brought back to life by the mind of a latter-day observer, re-animated by her powers of perception, sympathy, and imagination, and transformed into an essay and a remarkable series of photographs.

I am here to speak in praise of the humanities, and I begin with my Welty tale to remind us what the humanities are. The humanities aren't just the subjects listed in college course catalogues—literature, philosophy, history, music, and the other arts—though those are certainly included. The humanities are a name for the process by which all the things humans have made, said, thought, and done come back to spark the understandings of other humans across time.

Two facts make this transaction possible. The first is that humans make things, express themselves through the materials that surround them, and that these wrought things—a tool, a house, a picture or song, an expressed idea—live on when their fashioners have departed. Faulkner said that the work of art is "the artist's way of scribbling 'Kilroy was here' on the walls of the final and irrevocable oblivion through which he must someday pass." But it isn't only art objects that have this

trick of persistence. In Faulkner's *Requiem for a Nun*, the most everyday mark made by the homeliest figures—the name a country wife carved in a window pane—announces the fact of her human being: "*Listen, stranger; this was myself; this was I.*"

Second, as we make things that outlive their makers, another of our innate capacities is that we go out in spirit toward the works of others. Humans have the peculiar ability—and, judging by the amount of time we spend reading, watching videos, and listening to music, arguably even a fundamental need—to exit the confines of our own experience and to take up mental residence in spaces created by others. Put these two together and you get the difference the humanities make. This gift for *going out* of ourselves and *entering into* things is what gives fresh being to creations whose origins are distant in space and time. As we "get into" it, the book or song composed by another comes to life again as our experience. As Welty trains her gaze on Windsor or Rodney, she feels the obscure life of which these are the remains.

When we live outside ourselves with sufficient intensity of feeling, we in turn have a chance to be changed. This is the way we annex understandings that have been struggled toward by others that we would never have reached on our own. This is how we get to see the world differently from the way our own minds or culture habitually present it, and recognize that our customary outlook is not the only point of view. This is how we learn that there is

Embers of the fire: In her photographs of River Country, Welty felt the distant force of the abandoned monuments.



more to human history than the present, and that our present is itself a moment in time. This is how we begin to understand the other customs, beliefs, and values men and women live by in other countries (or indeed within our own country), and to imagine how differences can be accommodated for a common good.

Understood this way, the humanities are not a specialized taste but the root of the most basic human and civic competencies. If we lacked these gifts, we would be condemned to the harshest of poverties, dependence on our own unaided selves. Collectively, we would have little idea where we came from or where we could be going. So it matters how this impulse is fed.

I spoke of the humanities as the interplay of human making and human receiving. But a third thing is needed for the reaction to work: some mediating or connecting force, something to bring the past to the present's attention. Welty was brought to her River Country partly by her work as photographer for the Works Progress Administration, the Depression-era agency that commissioned photographers to record the life of regions. I was brought there through the medium of Welty's essay and photographs: In a million years, I would never have happened onto these places on my own.

Because this is so, when we think about the health of the humanities, we need to think of the agencies that carry the human legacy across to its new receivers and that teach the forms of attention that bring distant things to life. The agencies involved in this broad work of education include elementary and high schools, colleges, universities, and community colleges, museums, libraries, and concert venues, and all manner of formal and informal community activities, from book clubs on up. I myself have profited from all of these and many more.

But with every gratitude to this rich array of teachers, my first North Carolina immersion came through a different experience of the humanities—in this case, through my own research. So I hope you'll allow me to share the story of how I began going to Carolina in my mind, long before I ever imagined living here.

Charles Waddell Chesnutt was the

major African-American writer of the post-Civil War generation. Like many writers in his tradition, he was unread and virtually unheard of at the time of my graduate training. He began to be noticed in the 1980s, at which time I read his volume of tales *The Conjure Woman*, loved it, and began to teach it. From there it was an easy step to giving a paper on Chesnutt at a scholarly conference, in which I mentioned drafts of an early Chesnutt novel

posited in the Special Collections of the Fisk University Library. Five minutes after arriving, it was clear that there was no such edition to be made. But since I had two days in Nashville before my return flight, I opened some other boxes in the archive and started to read the journals Chesnutt kept in his late teens and twenties, between 1874 and 1882.

This was one of those uncanny moments when the past's fire re-ignites. Here I was,



Ghostly grandeur: At the Windsor mansion, only a set of Corinthian columns hint at a story untold.

named *Rena Walden*. After the talk, a stranger in the audience, Reynolds Smith, longtime humanities editor at Duke University Press, came up to ask if I would be interested in doing an edition of this manuscript. Perhaps so, I said, and filed the thought away.

Some months later, I had the idea of going to inspect this manuscript, which like all Chesnutt's papers had been de-

reading the penmanship of a young man who had written these words 125 years before, in a moment that must have felt as present and alive to him as my present moment was to me. I was hearing confided hopes, fears, and ambitions he had perhaps only ever shared with his diary, with no thought that they would ever be read by others.

After that, off and on for the space of a

year, I kept company with Chesnutt, transcribing the journal and trying to grasp the milieu it arose from. This took me mentally to Fayetteville and what to me were a series of revelations. I knew that North Carolina had an unusually large free black population before emancipation: John Hope Franklin, later to be my colleague, had written a book on this subject. Well, here was such a person in his living actuality: a black man from a slave state, neither of whose parents had been slaves. From Booker T. Washington I knew of the ardent desire of blacks during Reconstruction to reclaim the education that had been denied them before. But I would not have

that is as much as we can make in 2 or 3 months.' " It took me awhile to learn that, having obtained a first-class teaching license (itself a fairly new bureaucratic invention for both white and black educators), Chesnutt was entitled to earn forty dollars a month as a teacher at age seventeen—a stupefying sum to the agricultural laborer he is speaking with. (Chesnutt was neither the first nor the last teacher whose work was not thought to be work at all by those doing manual labor.)

Secure in the superiority of certified skills, Chesnutt looks scornfully on this lame reply. But by chiding the older man for his cheapness, Chesnutt provokes a

ending dialogue. But it helps to be reminded that funding arguments in our day come out of a long history; that people's views on such issues are always embedded in the circumstances of their social lives, and that we argue more effectively when we become better able to enter into another's point of view. The history lesson from Chesnutt's diary is but one example of the way the experience of others, the core of humanities, can enlarge our later understanding.

The humanities aren't a luxury good to be enjoyed only by those with high discretionary incomes and long pedigrees in school. They're a fundamental need of our

When we live outside ourselves with sufficient intensity of feeling, we in turn have a chance to be changed.

guessed that, when free blacks including Chesnutt's father contributed the money to found the Howard School, the consequence was that Fayetteville had a grade school for African-American children before it had one for whites. History is particular and thus full of surprises.

Charles Chesnutt was the prize pupil of this newly founded school. Astonishingly precocious, he became the head of school at the age of twenty-two, when it was designated to be one of North Carolina's first two state-supported teacher training institutions, the State Colored Normal School. (The other, white, school was the education school at UNC.) Chesnutt's journal supplies access to the thoughts and feelings of a gifted young black person living with the new opportunities and old restrictions this time and place provided. Let's tune in to a moment in this vanished yet visitable past.

Summer 1875. Chesnutt hunts for summer teaching jobs in the hinterland between Charlotte and Statesville, "climbing fences and crossing cotton fields" along the way. On this scouting visit, Chesnutt found dinner and a bed with a local family, and his journal lets us tune in to a remarkable dialogue. "After supper we had a talk concerning schools, schoolteachers and preachers. The old man said that 'you teachers and preachers are too hard on us. You want us to pay you thirty or forty dollars a month for sitting in the shade, and

fuller articulation of where this man is coming from. "Well, but we haven't got any chance. We all of us work on other people's, white people's, land, and sometimes get cheated out of all we make; we can't get the money." I'm not too cheap to pay, the man rejoins. I am a tenant farmer, I live in another new post-emancipation status, legally freed yet economically still dependent. So my income is not under my control.

As he gains a deepened sense of the social position of the person he is speaking with, Chesnutt becomes able to fashion a far more effective retort. "Well, you certainly make something?" "Yes." "Now, I'll tell you. You say you are all renters, and get cheated out of your labor, why don't you send your children to school, and qualify them to look out for themselves, to own property, to figure and think about what they are doing, so that they may do better than you?" To paraphrase: Education isn't an expensive scam, it's an investment. The less you think you can afford it, the more you actually need it. Put your money into your kids' education, and they'll know how to control their social destinies.

Through this moment in Chesnutt's diaries, we catch people in the act of arguing out the costs and value of education in rural North Carolina ten years after the Civil War, at a time when both were new realities. The argument between educators and the public that pays them is a never-

humanity. They enrich us as persons and enable our life with others. When access to them weakens, we pay a major cost.

Now as ever, the humanities need supporters, but we need to think how best to advance the case. In my experience, humanistic advocacy tends to take one of two general forms. On the one hand, devotees repeat mantras that resonate with those who have already undergone humanistic conversion but draw blank stares from the uninitiated. ("Only the humanities raise issues of life's meaning." If you don't already know, what exactly does that mean? "The humanities promote critical thinking." Now there's an unself-critical thought!) On the other hand, aware that this sales pitch is falling flat, we reach for arguments thought to be sure-fire winners with the public, though we know they don't do justice to the cause—the arts are great because they are essential to economic development (they are, but that's not why they're great); or, if we aren't trained in foreign languages and cultures, we won't be able to decode intelligence from terrorists (ditto).

What we need, before we ask others for support, is to challenge ourselves to say what the humanities are good for, as simply and truly as we can manage, with examples that prove the point. It's not the easiest of tasks, but it's worth our hard thinking. The life you save may be your own. ■

BOOKS

Better Than Human: The Promise and Perils of Enhancing Ourselves by Allen Buchanan. Oxford, 2011. 208 pages.

In sports, it has become unfortunately common for athletes to use anabolic steroids and other drugs to improve their abilities. But in the workplace, what if your coworkers were using cognitive-enhancing pharmaceuticals and, as a result, your boss was considering firing you for poor performance? Further complicating the matter, what if you then felt compelled to take these medications but were distressed about potentially devastating side effects?

These are some of the ethical dilemmas raised by the growing use of enhancements, which are drugs and devices that can lift a user's capabilities above normal human levels. Studies in healthy volunteers have demonstrated that various medications can impart cognitive benefits. When adult participants were kept awake for two consecutive nights, the sleep-disorder drug modafinil (brand name Provigil) significantly increased alertness and performance on cognitive tests.

In numerous studies, methylphenidate (Ritalin)—a treatment for attention deficit hyperactivity disorder (ADHD)—improved aspects of working memory, which people use to solve problems. Each year roughly 5 to 10 percent of college students take Ritalin or a related ADHD therapy, Adderall, to enhance their alertness and concentration. Two recent reader polls, in the journal *Nature* and magazine *New Scientist*, found that 20 to 40 percent of readers had used cognition-boosting drugs. They are becoming commonplace.

In the future, new technologies may radically extend human abilities. Early-stage research, including work conducted at Duke, has shown that primates can control robotic arms with their minds. In other work, researchers are developing prototypes of electronic contact lenses that might one day provide telescopic zooming, night vision, and in-vision displays. Such innovations are still on the horizon. But their potential widespread use could have profound social, medical, legal, political, and philosophical implications.

Allen Buchanan, a prominent bioethicist and James B. Duke Professor of philosophy, introduces readers to the ethical dilemmas of enhancements in *Better Than Human*. The problem areas include inequality (what if only the rich can access ability-boosting technologies?), safety risks (what are the side effects in healthy people?), coercion (what if institutional policies or peer pressure compels people to enhance?), corruption of character (what if we become lazy?), and loss of human nature (what would that mean?).

One key concern is that enhancements may widen already-expanding inequality gaps. Buchanan explains that some people assume that these technologies will be expensive; only the rich might afford them. As enhanced people become smarter

and more productive—and use their privileged access to knowledge and connections—they might accumulate wealth and political power at even faster rates.

Buchanan reasons, however, that the fear of increasing inequality may be unrealistic. It presumes that enhancement prices will not fall over time, as have the prices of technologies like cell phones and computers. It also assumes that governments will not intervene to improve access. Governments might subsidize innovations that increase productivity (leading to more business growth, jobs, and tax revenue) or reduce criminal behavior (leading to less spending on court fees, rehabilitation, or imprisonment).

The concern over safety may be more significant: The long-term risks of ability-boosting medications in healthy people are unknown. Currently the U.S. Food and Drug Administration regulates only treatments and diagnostics for disease (though Congress could expand the FDA's scope and resources). As a result, drug companies are not required to conduct long-term trials of enhancement efficacy and safety in healthy people, nor are they liable for severe side effects. People acquire enhancements from physicians' off-label prescriptions, Internet prescriptions, or the black market.

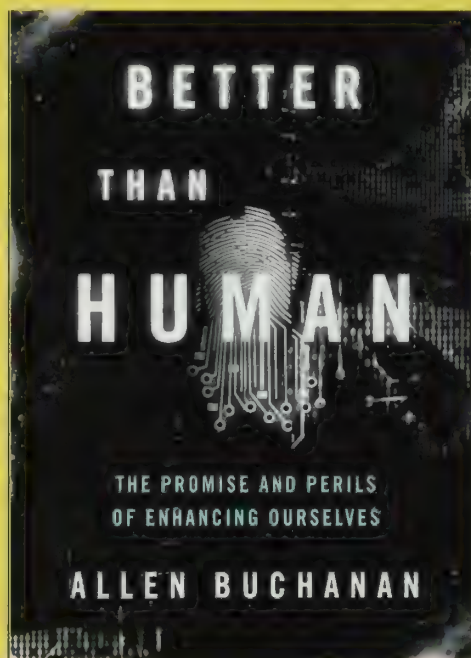
Future enhancements also may impart devastating and novel side effects beyond those of typical therapies. Some potential risks are purely medical: A brain implant could malfunction and cause irreparable brain damage or even

death. Other risks carry a social element: What if some humans became so altered that they could no longer relate to un-enhanced humans?

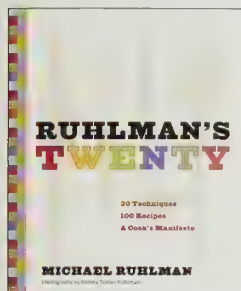
Buchanan, who also holds an appointment in the law school, provides guidelines for managing these risks. To help in avoiding unintended harmful consequences, he argues that enhancements should be reversible. This will be easier to achieve for pharmaceuticals and external devices than for interventions like gene therapy and implanted devices. He also asserts that a newly heightened ability should not surpass that of the highest-achieving person in an un-enhanced population, though Buchanan would allow exceptions for some extremely beneficial innovations. A general limit to radical improvements, he contends, would give society time to adjust.

The central achievement of *Better Than Human* is that it introduces important ethical questions to a broad audience. Written with a cautiously optimistic outlook, the book is a good primer on the ethics of enhancements.

—Andrew McKee

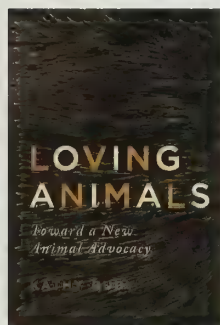


McKee B.S.E. '00, M.D. '05 is a freelance writer based in San Francisco.



Ruhlman's Twenty by Michael Ruhlman '85. *Chronicle Books*, 2011. 368 pages. Ruhlman knows food. His credits include nine books (*Charcuterie*, *Soul of a Chef*) and seven coauthored cookbooks (*The French Laundry Cookbook*). He's a *New York Times* and *Los Angeles Times* contributor and a judge on shows such as *Iron Chef America* and *Cooking Under Fire*. In his latest book, the Culinary

Institute of America graduate identifies the ingredients, techniques, and approaches essential to mastering cooking. Each of the twenty sections includes photographs of specific techniques and recipes, ranging from classics such as coq au vin and deviled eggs to braised pork belly with caramel miso glaze and chipotle corn fritters with cilantro-lime dipping sauce.



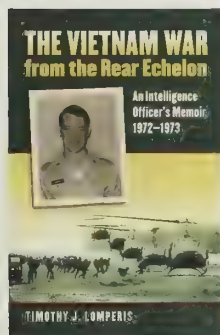
Loving Animals: Toward a New Animal Advocacy by Kathy Rudy. *University of Minnesota Press* 2011. 288 pages. An associate professor of ethics and women's studies at Duke, Rudy contends that in order to achieve such goals as ending animal testing and factory farming, activists need to be better attuned to the emotional and spiritual attachment that many people have with the animals in their lives. The book explores the five realms in which humans use animals—as pets, for food,

in entertainment, in scientific research, and for clothing—to broaden support for animal advocacy and societal change.



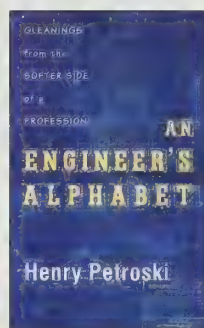
Lucky Girl by Sharon Hammond McAlister with Charles B. Hammond M.D. '61. *Authorhouse*, 2011. 176 pages. Charles Hammond, who chaired Duke's ob-gyn department for twenty-two years and has published more than 400 scientific articles and books, completed this book after his daughter died in 2009. The book chronicles Sharon's diagnosis and treatment of Stage III breast cancer at the age of forty-two, and her husband's battle with and death from Lou Gehrig's disease, and

includes reflections from her father.



The Vietnam War from the Rear Echelon: An Intelligence Officer's Memoir, 1972-1973 by Timothy Lomperis A.M. '78, Ph.D. '81. *University Press of Kansas*, 2011. 272 pages. An intelligence officer in Vietnam, Lomperis was part of a command tasked with carrying out the political imperatives of Washington while the military situation on the ground was deteriorating. In his third book about Vietnam, he describes his own moral conundrum as the son of missionaries

and an initial Cold War advocate who undergoes gradual disillusionment. Lomperis is a Bronze Star veteran and professor of political science at Saint Louis University.

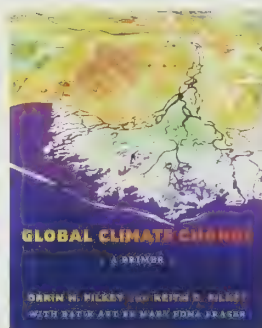


An Engineer's Alphabet: Gleanings From the Softer Side of a Profession by Henry Petroski. *Cambridge University Press*, 2011. 368 pages. Petroski's latest general-interest book about engineering includes a selection of thoughts, quotations, anecdotes, facts, trivia, and arcana relating to the practice, history, culture, and traditions of his profession. Petroski is the Aleksandar S. Vesic Professor of civil engineering and a professor of history.



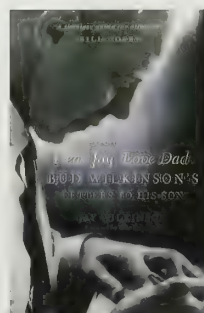
To Free a Family: The Journey of Mary Walker by Sydney Nathans. *Harvard University Press*, 2011. 346 pages. Duke professor emeritus of history Nathans re-creates the efforts of Mary Walker, who escaped from slavery in 1848 and spent the next seventeen years trying to be reunited with the family she was forced to leave behind. Nearly twenty-five years since Nathans first came across the letter that would spark his interest in Walker's case, he has

written a book that weaves together historical events, such as John Brown's raid on Harpers Ferry and Reconstruction, with personal details drawn from letters and diaries.



Global Climate Change: A Primer by Orrin H. Pilkey and Keith C. Pilkey. *Duke University Press*, 2011. 160 pages. An internationally recognized expert on the geology of barrier islands, Orrin Pilkey—James B. Duke Professor Emeritus of geology and of earth and ocean sciences at the Nicholas School of the Environment—explains the science of global change and its effects. Pilkey and his son, Keith, a lawyer with a long-

standing interest in geo-engineering and corporate influence on science policy, describe the greenhouse effect and the damage it is causing, and confront and rebut arguments typically advanced by climate-change deniers and the fossil-fuel industry. Complementing the discussion are batik illustrations by Mary Edna Fraser depicting the large-scale arenas where climate change plays out.



Dear Jay, Love Dad: Bud Wilkinson's Letters to His Son by Jay Wilkinson '64. *University of Oklahoma Press*, 2012. 232 pages. Bud Wilkinson made history as the football coach of the University of Oklahoma, winning fourteen conference titles and three national championships and setting an NCAA record of forty-seven consecutive wins. This compilation of letters between the legend and his son, who excelled as a varsity football player at Duke, provides a more intimate look at the enduring life lessons he embraced.



Members of the Duke University Marching and Pep Band hang ten with the Blue Devil in the Stock Library.

CRAZY SMART

You spend years with the resources of a world-class academic library at your fingertips. Then you graduate. Now what? Google everything? Wipe out!

Just because you're not a student anymore doesn't mean you lose your library privileges. Some of our most heavily used online resources are available to all Duke alumni—for free.

Even if you live on the other side of the world, like Chapel Hill, you can still surf your favorite databases like JSTOR and Academic Search from your home or office.

And if you miss that personal touch, you can always talk with a Duke librarian by phone, instant message, or live-chat any time. Because we understand that the search for answers doesn't stop with college.

That's not just smart. That's crazy smart. It's just another benefit of a Duke education.

Stay crazy smart. Get the good info. Support Duke University Libraries.

library.duke.edu/crazysmart

DUKE UNIVERSITY
LIBRARIES

AlumniRegister

DUKE ALUMNI ASSOCIATION



Duke University Archives

Ice queen: A passerby admires a snow sculpture in January 1940.



View from the top: Kara DioGuardi '93, songwriter, record producer, and former *American Idol* judge, delivered the keynote address for the Duke Entertainment, Media, and the Arts Network (DEMAN) weekend in November.

Jared La

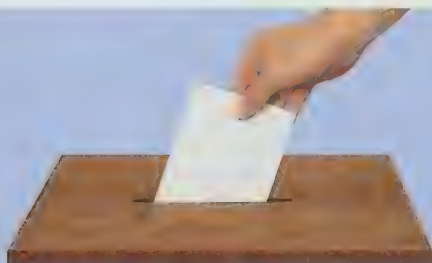
Artists at Work and Play

DEMAN weekend caps off celebration of campus arts.

Singer-songwriter and record producer Kara DioGuardi '93 kicked off DEMAN Weekend 2011 by telling students that making it in the arts involves hard work and bruising rejection—but that by following their passion they can find personal fulfillment and a rewarding career path. During her keynote speech in the Gothic Reading Room, DioGuardi, who has written hundreds of songs and was a judge on two seasons of *American Idol*, shared the highs and lows of her circuitous road to the top of her profession. She also led a master class in songwriting later that afternoon.

Now in its second year, DEMAN—Duke Entertainment,

Media, and the Arts Network—capped off a week-long Duke Arts Festival that included live performances, an exhibition of student artwork, tours of arts facilities around campus, and more than two dozen student performances, ranging from the Duke Percussion Ensemble's jam session at the West Campus bus stop to sonnet readings on the Bryan Center Plaza. Alumni panels and career workshops for students explored facets of the entertainment and media industry, from learning film production and direction to becoming a talent agent or making a living as an artist. DEMAN and the Duke Arts Festival are sponsored by the Duke Alumni Association and the Vice Provost for the Arts.



Call for Nominations for Board of Trustees

The Duke Alumni Association seeks your help in identifying alumni for nomination to the Board of Trustees of Duke University. This ongoing process relies on suggestions from all segments of our broad and diverse alumni community. Nominations are reviewed by the Executive Committee of the Duke Alumni Association's Board of Directors, which then submits a list of candidates to the Trustee Committee on Trusteeship. **For information or to submit names, please contact Sterly L. Wilder '83, associate vice president, Alumni Affairs, at trusteenominations@daa.duke.edu.**

Call for Nominations for DAA Board

To nominate someone for the Duke Alumni Association's Board of Directors, go to www.boardnom.dukealumni.com and complete the online form. Or you may send names and qualifications (no self-nominations, please) to Sterly L. Wilder '83, associate vice president, Alumni Affairs, Box 90572, Durham, N.C. 27708 or sterly.wilder@daa.duke.edu. The deadline is March 1.

RETROSPECTIVE

The Company of Women

Campus Club evolves from tea and lace.

In 1914, Mary Reamey Thomas Few dreamed of an organization that would bring women together from across Trinity College. Few, wife of then-President William P. Few, decided to make her dream a reality, forming a club that gave women

an opportunity to share their interests in art, music, poetry, and science, while also welcoming newcomers to the Trinity College community.

The result was Campus Club, a social club that organized social and cultural events for the wives

of college faculty members. Although it has moved away from the formality of its beginnings, when women wore long dresses to luncheons at tables decorated with lace tablecloths, the Campus Club remains active today. Over the years, it has in-

troduced events that showcased its members' creativity and active pursuit of knowledge.

The club's popular lecture series featured an impressive roster of Duke professors and visiting scholars. Annual fashion and craft shows put the creations of club members on display. Club committees focused on special interests including cooking, crafts, cultural heritage, music appreciation, and personal computing. Field trips took members to see performances such as Verdi's opera *Rigoletto* and to visit historic landmarks.

Time also has made the club more inclusive. Today it welcomes women from all facets of the Duke community, including faculty and staff members, administrators, and alumnae. As the centennial anniversary of the club approaches, its history remains richly representative of the strength, creativity, and kindness of generations of women at Duke.

—Rosemary K.J. Davis,
Duke Libraries



Board of Directors, 2011-12

President: Mandy Vieue '92
 Secretary/Treasurer: Sterly L. Wilder '83
 President Elect: Jeffrey C. Howard '76

Vice Presidents:

Julie Berger Ferguson '81, Carmichael Roberts Jr. '90, Ph.D. '95
 Lee M. Roberts '90, Suzanne M. Rose '94

Executive/Associate Executive Officers & Student Representatives:
 Sarah Hardesty Bray '12

Executive Officers:

Betsy Alden '64, B. Michael Bennett '77
 Jack W. Boyd '85, Christopher Brandt '00
 Palmer Peebles Garson '79, Cecelia Gassner '94
 Jason Goode '97, J.D. '00, Peter C. Griffith '78
 Roseann Visconti Hassey '83, Winston Henderson '90, J.D. '96
 Edwin Howard Jr. '63, N. Shepard Moyle '84
 C. Howard Nye '84, Kimberly Dawn Reed '86
 Tonya Terrell Robinson '92, Mark E. Stalmecker '77
 Pamela Stone '73, Paul Teller '93
 John Tolson '96, Wendy Tsai '92
 Kathleen Kaylor Wagoner '77

Programs and Grad Programs:

Carmichael Roberts Jr. '90, Ph.D. '95
 Graduate School of Arts and Sciences
 Wymon Fraser Davis '87, M.Div. '95, Divinity School
 Robin Ten Kate M.B.A. '03, Fuqua School of Business
 Charles E. Finley Jr. M.T. '67, Nicholas School of the Environment
 Ershela Sims B.S.E. '93, Pratt School of Engineering
 Amy Hepburn '97, M.P.P. '01, Sanford School of Public Policy
 John A. Howell '72, J.D. '75, School of Law
 Diana McNeill '78, M.D. '82, School of Medicine
 Constance Cabell-Kendall B.S.N. '84, School of Nursing
 Judith Ann Maness M.H.A. '83
 Graduate Program in Health Administration
 Allen William Wicken M.S. '74, Graduate Program in Physical Therapy

Young Alumni Representatives:

Kyle Knight '08, Katie Laidlaw '04
 Heather Renee Oh '05, James Pineda '05

Faculty Representatives:

Alexander Hartemink '94, Associate Professor of Computer Science
 Thomas W. Robisheaux '74, Associate Professor of History

Member Representatives:

Daniel J. Griffith '74
 President, Graduate and Professional Student Council
 Susan Foster '71, Co-chair, Student Alumni Advisory Board
 Molly Himmelstein '12, Co-chair, Student Alumni Advisory Board

Lifetime Members:

M. Allison Harlow '72, William E. King '61, A.M. '63, Ph.D. '70
 Suzanne J. Wasiolek '76, M.H.A. '78, LL.M. '91
 Gerald L. Wilson B.D. '61, A.M. '68

President, School and College Alumni Associations:

J. Burton Palmer Jr. M.Div. '90, Divinity School
 Karen E. Grund '84, M.B.A. '90, Fuqua School of Business
 Michael Pentony B.S.E. '87, M.E.M. '96
 Nicholas School of the Environment
 John J. Glushik B.S.E. '90, Pratt School of Engineering
 Thomas William Giegerich J.D. '80, School of Law
 Dale R. Shaw '69, M.D. '73, School of Medicine
 Kathleen E.V. Gallagher B.S.N. '79, School of Nursing
 Judith Ann Maness M.H.A. '83
 Graduate Program in Health Administration
 Allen William Wicken M.S. '74, Graduate Program in Physical Therapy

Duke
 ALUMNI ASSOCIATION

Social graces: A Campus
 Club tea in 1966

DUKE ALUMNI ASSOCIATION CLASSNOTES

CLASS NOTES are an opportunity for alumni to keep classmates and the greater Duke community informed of significant accomplishments.

- When writing to us, please include your full name (with maiden name, if applicable), class year, and current address.
- For marriage or civil-union announcements, please also include both partners' names and the ceremony date.
- For birth announcements, please include the parents' names along with the child's birth date, full name, and siblings, if applicable.

Having this information helps the Duke Alumni Association serve you better. *Duke Magazine* does not record engagements.

Half-Century Club

Robert C. Wagner '52, LL.B. '57 has self-published his third book, *Share & Tell*, about his military service during the Vietnam War, as well as his personal life. He resides in Bedminster, N.J.

John M. Rosenberg '53 was the 2009 midyear graduation ceremony speaker at Berea College, where he was awarded an honorary doctor of laws degree. Rosenberg also holds an honorary doctor of public service from Morehead State University and

There are three ways to submit a class note for publication:

Write: Class Notes Editor, *Duke Magazine*, Box 90572, Durham, N.C. 27708-0572

Fax: (919) 681-1659. Typed notes only, please.

E-mail: dukemag@duke.edu

Because of the large amount of class note material we receive and the long lead time required for editing, typesetting, design, and printing, your submission may not appear for three to four issues.

an honorary doctor of laws from William Mitchell School of Law.

Charlotte Bowers Nelson '54 was inducted into the Iowa Women's Hall of Fame, acknowledging her government and charity work as an advocate for women's rights and equality.

Roger J.A. Turner '54 has published his book *Love & Forgiveness* (Xulon Press), which describes his experiences in prison ministry over a 25-year period.

He also received his church's Senior Servant Award for service to its members.

Charles M. Butter Ph.D. '59 self-published *Crossing Cultural Borders: Universals in Art and Their Biological Roots*. The book focuses on the relationships between art and biology from a neuroscience viewpoint.

Carl J. Pfeiffer '59 has published and illustrated *Images: Sixty Short Japanese Poems of Nature, Man and Love* (Pocahontas Press), which was nominated for a National Book Award, poetry section. He is professor emeritus of biomedical sciences at Virginia Tech.

1960s

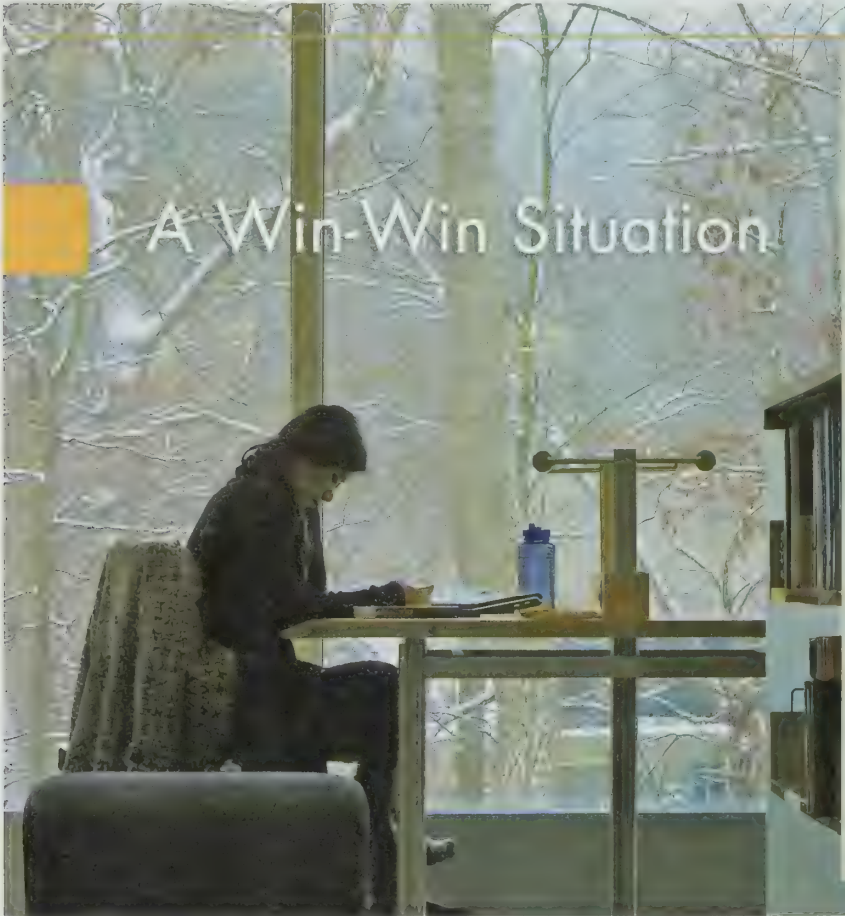
'62 50th Reunion April 20-22, 2012

David W. Long '64 was named to *The Best Lawyers in America 2012*. He is a partner at Poyner Spruill in Raleigh and was recognized in seven separate categories.

Ronald G. Peyton '66 has received the Catherine Worthingham Fellowship Award, the highest honor in physical therapy, from the American Physical Therapy Association. He retired from clinical practice and lives in Atlanta.

'67 45th Reunion April 20-22, 2012

Janet E. Poppendieck '67 has received the James Beard Leadership Award, which recognizes visionaries in business, government, and education sectors for their work in creating a healthier food



A Win-Win Situation

A life income gift serves a dual purpose: it provides philanthropic support for Duke and provides both a tax deduction and an income stream to you and/or your loved ones. You can make a gift that generates a fixed payment, or receive payments that fluctuate from year to year. You can also defer payments until your retirement and receive a higher payout once payments begin.

Life income gifts to Duke can provide income benefits comparable to—or in some cases exceeding—those that might be earned in ordinary investments. Let us help you and your financial advisors develop a gift plan that meets your financial and philanthropic goals.

Duke University Office of Gift Planning

Box 90600, Durham, NC 27708

Phone (919) 681-0464

Email gift.planning@dev.duke.edu

Explore gift plans at
giving.duke.edu/giftplanning

world. She is the author of *Sweet Charity? Emergency Food and the End of Entitlement* and *Free for All: Fixing School Food in America*, which was reviewed in *Duke Magazine's* September-October 2010 issue.

Pamela Odell Price '67 was named to *The Best Lawyers in America 2012*. She practices trusts and estates law for GrayRobinson in Orlando, Fla.

Patrick D. Coleman '68 was named to *The Best Lawyers in America 2012*. He practices employment and labor law for GrayRobinson in Jacksonville, Fla.

Judith Braley Rock '68 has published *The Eloquence of Blood* (Berkley Trade), the second book in her mystery series set in 17th-century Paris. She lives in Sarasota, Fla.

Phillip R. Finch '69 was named to *The Best Lawyers in America 2012*. He practices real-estate law for GrayRobinson in Orlando, Fla.

Marc A. Tanenbaum '69 has transitioned from 31 years of traditional pediatric practice to providing both well and sick care through a house-call pediatrician service, Priority Pediatrics PC in Atlanta.

1970s

Gus Franklin '70 has self-published *Afraid to Win*, a book that examines attributes of successful leaders based on his experiences as a senior global manufacturing and marketing professional. He lives in Wilmington, N.C.

T. Richard Kane '70, LL.M. '86 was named to *The Best Lawyers in America 2012*. He is a partner at Poyner Spruill in Charlotte and was recognized in environmental law and litigation-environmental.

Roger C. Peterman '70 has retired from the business-law faculty of Meritus University, New Brunswick, Canada. He is a Life Master of the American Contract Bridge League. He lives in Fenelon Falls, Ontario.

'72 40th Reunion April 20-22, 2012

Elizabeth A. Lunbeck '75 has co-edited *Histories of Scientific Observation* (University of Chicago Press), about scientific methods of observation from several fields over the years. She is the Nelson Tyrone Jr. Professor of American History at Vanderbilt University.

John C. Rodney '76 won the Pennsylvania Senior Amateur Golf Tournament, shooting 69-69. He is a partner at Thorp Reed & Armstrong in Pittsburgh and has been listed in *The Best Lawyers in America* since 1995.

Steven Mansfield Shaber J.D. '76 was named to *The Best Lawyers in America 2012*. He is a partner at Poyner Spruill in Raleigh and was recognized in administrative/regulatory law and health-care law.

'77 35th Reunion April 20-22, 2012

Martha J. Dunn '77 is a consultant at TetraTech, aiding the Federal Aviation Administration in the development of GPS-based procedures for aircraft. She retired from the FAA in 2010 after a 24-year career as an air traffic controller at Anchorage Air Route Traffic Control Center. She is also a member of the National Association of Women's Gymnas-

tics Judges and the USA Gymnastics state chair for women's gymnastics in Alaska.

Gary Robert Stevenson '78 was named the head of Pac-12 Enterprises, a Pac-12 creation that will manage six regional cable networks and a national network.

Thomas Roswell West J.D. '79 was named to *The Best Lawyers in America 2012*. He is a partner at Poyner Spruill in Raleigh and was recognized in administrative/regulatory law.

1980s

David Dreifus J.D. '80 was named to *The Best Lawyers in America 2012*. He is a partner at Poyner Spruill in Raleigh and was recognized for his work in commercial litigation and banking and finance litigation.

Robin Jayne Stinson '81 has been elected to a three-year term on the North Carolina Bar Association's Dispute Resolution Council. She is a lawyer and director at Bell, Davis & Pitt in Winston-Salem, practicing family law and alternative dispute resolution.

David Elliot Sturgess J.D. '81 has been named general counsel of ReCommunity Holdings, a residential and commercial recycling facility in Charlotte. Sturgess formerly worked as a partner at Updike, Kelly & Spellacy.

'82 30th Reunion April 20-22, 2012

Mitchell A. Garber '82 has been named a senior managing consultant with Engineering Systems Inc., an engineering and scientific analysis firm. He previously served as the first medical officer for the U.S. National Transportation Safety Board. He lives in Atlanta.

P. Russell Hardin J.D. '82 was appointed to the Northwestern Mutual Life Insurance Co. board of trustees. He is the president of the Robert W. Woodruff Foundation, the Joseph B. Whitehead Foundation, the Lettie Pate Evans Foundation, and the Lettie Pate Whitehead Foundation. He lives in Atlanta.

Daniel J. Hasler M.B.A. '82 has been appointed by Indiana Gov. Mitch Daniels to be Indiana's secretary of commerce.

Rita Arlene Sheffey Ph.D. '82 was elected president of the Atlanta Bar Association. She will work to promote and increase pro bono and public service among the membership.

Peter Joel Ganz '84 was elected senior vice president and general counsel of Ashland Inc., a refining company located in Covington, Ky.

Lansing Charles Scriven '84 has joined Quarles & Brady as partner in the commercial litigation group at the firm's Tampa, Fla., office. Scriven focuses his practice on business litigation.

'87 25th Reunion April 20-22, 2012

Mark David Carlson A.M. '88 was elected to the board of directors for the California Healthcare Institute. He also serves as chief medical officer and senior vice president of clinical affairs within the

St. Jude Medical Cardiac Rhythm Management division.

BIRTH: Second child and daughter to **Dale Leroy Brunelle** '85 and Kristina Brunelle on July 29, 2011. Named Evelyn Charlotte Beatriz.

1990s

Phillip Ayoung-Chee '90 has been accredited as an international umpire by the Badminton World Federation at the Sudirman Cup held in Qingdao, China. He is one of four umpires in the U.S. actively accredited at an international level.

Paul Baerman M.B.A. '90 has won a 2011-12 North Carolina Arts Council Artist Fellowship for Playwriting. He resides in Chapel Hill.

Brian Charles McPeck '91 has been appointed chief operating officer of The Nature Conservancy. McPeck previously served as the conservancy's regional managing director for North America.

'92 20th Reunion April 20-22, 2012

Timothy Edward Symons '93 assumed command of Helicopter Sea Combat Squadron TWO TWO based in Norfolk, Va.

Barbara Elizabeth Will Ph.D. '93 has published *Unlikely Collaboration: Gertrude Stein, Bernard Fay, and the Vichy Dilemma* (Columbia University Press). She is a professor of English at Dartmouth College and writes about modernist literature and culture.

Christopher Jerome Vaughn J.D. '94 has been named to *The Best Lawyers in America 2012* for his work in real-estate law at Carruthers & Roth in Greensboro.

Emily Elizabeth Cole '95 served as lieutenant commander aboard the military sealift command hospital ship USNS *Comfort* as part of a humanitarian mission to the Caribbean and Central and South America last spring and summer, providing the U.S. military a mobile surgical facility. Cole is a reconstructive urologist.

John M. Pearson B.S.E. '95 has self-published *Learn Me Gooder* as a sequel to his 2006 novel, *Learn Me Good*, both about life in the classroom. He lives in Dallas.

Douglas Scott Seybert '96 has been promoted to senior vice president of marketing for three emerging channels at Discovery. Seybert is in charge of the on-air creative and off-air advertising campaigns for Investigation Discovery, Planet Green, and Military Channel.

'97 15th Reunion April 20-22, 2012

Brian Louis Feldman B.S.E. '97 served as lieutenant commander aboard the military sealift command hospital ship USNS *Comfort* as part of a humanitarian mission to the Caribbean and Central and South America last spring and summer, providing the U.S. military a mobile surgical facility. Feldman is a pediatrician.

David A. Shuford '98, LL.M. '02, J.D. '02 has joined Robinson Bradshaw & Hinson in Charlotte. His expertise is in international law and risk assessment and mitigation.

Peter J. Klein '99, M.D. '01 is serving on the Duke president's and provost's Innovation and Entrepreneurship Task Force, focusing on accelerating the university's efforts to foster entrepreneurship. He resides in McLean, Va.

MARRIAGES: **David Richard Lauren** '93 to Lauren Bush on Sept. 4, 2011. Residence: New York. **Amy Kristine Fauver** '95 to Todd Borkowitz on Sept. 10, 2011. Residence: Portland, Ore. **Mark C. Mitchell** '97 to Mary Kenagy on Jan. 26, 2008. Residence: Seattle. **Mark Francis Simmons** '98 to **Jaimie Alicia Slade** '02 on Sept. 17, 2011. Residence: Durham. **Caroline Gaud Tinker** '98 to Kurt Palmer on June 18, 2011. Residence: New York. **Robert Ian Blakely** '99 to **Suzanne Elizabeth Perreault** '99 on July 3, 2011. Residence: New York. **Joann Kleinneier** '99 to Dennis McEntire on May 22, 2011. Residence: Redwood City, Calif.

BIRTHS: Third child and daughter to **Lisa Moskowitz Sadikman** '91 and Josh M. Sadikman on July 29, 2011. Named Lilah Yarden. Fourth child and third daughter to **Timothy Rohrer Davis** B.S.E. '92 and Ruth Hildegard Davis on Aug. 8, 2011. Named Kira Ingeborg Rohrer. First child and son to **Bartley Lawrence Barefoot** '95 and Vigdis Engebretsen on Nov. 21, 2010. Named Lars Engebretsen. Second child and son to **Jennifer Yates** '95 and Brad Quesinberry on Jan. 12, 2011. Named Garrett Reid Quesinberry. Second child and first son to **Rob W. Widell** '96 and **Lauren M. Wein-**

stock '97 on May 5, 2011. Named Abraham Warner Widell. Third child and third son to **Tara Peterson Eads** '97 and Brian S. Eads on April 15, 2011. Named Liam Michael. First child and son to **Mark C. Mitchell** '97 and Mary Kenagy Mitchell on Feb. 9, 2010. Named Joshua Ryan. First child and daughter to **Simeon Wallis** '97 and Susan Wallis on April 3, 2011. Named Lilah Eden. First child and daughter to **Sarah Beasley Binder** '98 and Eric John Binder on Aug. 28, 2011. Named Elizabeth Choice. Third child and second daughter to **Michael Wayne Bowling** '98 and Ursula Blue Bowling on May 28, 2011. Named Lydia Jeanne. First child and daughter to **Benjamin R. Jordan** '98 and Laura A. Jordan on Jan. 30, 2011. Named Violet Morache. First child and son to **Clifford "Kip" Morris** B.S.E. '98 and **Lindsay Schneider Morris** '98 on Dec. 5, 2010. Named Clifford Calvin. Twins, first daughters, to **Jasmeet Kaur Sidhu** '98 and Aman Sidhu on May 12, 2010. Named Prabnoor and Ajuni. Second child and first son to **David A. Ahern** '99, P.A. '01 and Lisa S. Ahern on July 15, 2011. Named John Charles. First child and daughter to **Elizabeth "Zibby" Shiver Bernstein** '99 and Dan Bernstein on June 19, 2011. Named Zoe Laura. First child and daughter to **Lindsay Couch Kilgore** '99 and Jon L. Kilgore on Aug. 2, 2011. Named Allison Victoria. First child and son to **Peter Justin Klein** '99, M.D. '04 and Monica E. Klein on Aug. 30, 2011. Named Peter Grant. Third child and second son to **Stacy Moramarco**

Levy '99 and Craig Levy on July 12, 2011. Named Cole Joseph. Second child and first son to **Kendra Basner Mallen** '99 and Seth Mallen on July 15, 2011. Named Kade James. First child and son to **Anne Winborne Stoer** '99 and Michael Stoer on March 29, 2011. Named Andrew Wallace.

2000s

Nicole Carter Arnold '00 received a master of public administration in December 2010 from UNC-CH. Her consulting company manages campaigns for candidates for U.S. Congress and the North Carolina General Assembly. She lives in High Point, N.C., with her husband and two children.

Jeffrey R. Lam '00 has joined the law firm Rumberger, Kirk & Caldwell as an associate in its Miami office. His practice focuses on premises liability, personal-injury defense, and construction defects. He lives in Palmetto Bay, Fla.

Jason P. Radmacher M.Div. '00 organized the presentation of the drawings of artist Marjorie Morrow, created shortly after the events of Sept. 11, 2001. The presentation was held at the John Street United Methodist Church in New York in early September 2011.

Garrick Alcaez Sevilla '00, J.D. '07 has joined the litigation section of the firm of Williams



IRON DUKES
Building Champions

Support Duke student-athletes by becoming a member of the Iron Dukes.

Memberships start at \$100 and include a number of great benefits, such as priority seating and parking, invitations to special Iron Dukes events, and a subscription to Go Duke the Magazine.

The Iron Dukes
116 Cameron Indoor Stadium
Box 90542
Durham, NC 27708-0542
(919) 613-7575
IronDukes.net

Follow us at [facebook.com/theirondukes](https://www.facebook.com/theirondukes) Follow us at twitter.com/theirondukes Find us on [LinkedIn](https://www.linkedin.com/company/theirondukes)

Mullen in Raleigh. He was formerly a law clerk for the U.S. Supreme Court.

Melanie Shirley Taylor '00 has been made partner at Bendin, Sumrall & Ladner in Atlanta. She focuses on medical-malpractice defense and premises liability.

Noah L. Geisel '01 has been named Colorado Foreign Language Teacher of the Year. He is a Spanish teacher at Denver East High School and a contributing writer to the education blog TeachPaperless.com.

'02 10th Reunion April 20-22, 2012

Gretchen Aileen Coady '02 served as lieutenant aboard the military sealift command hospital ship USNS *Comfort* as part of a humanitarian mission to the Caribbean and Central and South America last spring and summer, providing the U.S. military a mobile surgical facility. Coady is a pediatrician.

Deborah Ann Grausman '02 is producing and performing in the musical *Fiddler on the Roof* for Shakespeare & Company in the Berkshires in Lenox, Mass. She previously spent a year with the national tour of the show.

Jennifer Csik Hutchens '03, J.D. '07 has been named the Young Lawyer of the Year by the Mecklenburg County Bar. She is a lawyer with Robinson Bradshaw & Hinson, a corporate and commercial firm in Charlotte.

Christine Tu Lin B.S.E. '03 will be making her Broadway debut this fall with David Henry Hwang's new play, *Chinglish*, in which she also appeared in the Chicago premiere.

Jason Daniel Layton M.S.N. '04 served as lieutenant commander aboard the military sealift command hospital ship USNS *Comfort* as part of a humanitarian mission to the Caribbean and Central and South America last spring and summer, providing the U.S. military a mobile surgical facility. Layton is a neonatal nurse specialist.

M. Robinson Ragsdale Jr. M.B.A. '04 was elected to the board of the Marbles Kids Museum in Atlanta. He is a managing director at Balentine, an investment firm located in Research Triangle Park in North Carolina.

Joel P. Reiser M.B.A. '04 was appointed CFO of Earth Networks, the owner of the WeatherBug brand and operator of the largest weather observing and lightning network.

J. Matthew Ivester '05 released his first book, *lol...OMG!: What every student needs to know about online reputation management, digital citizenship and cyberbullying* (Serra Knight Publishing). Ivester was the founder and CEO of JuicyCampus, a campus gossip website.

Katherine Lambert-Pennington Ph.D. '05 received the Ernest A. Lynton Award, which recognizes an early-career faculty member who connects teaching to community engagement. She is an assistant professor of anthropology at the University of Memphis.

Adam D. Chandler '06 earned a law degree from Yale Law School. He now is serving as a law



Steve Hillier

In India: Cook, far right, and producer Megan Hryndza interview Air Force pilot Anupama Joshi, left.

Rachel Cook '06, Telling the story of microfinance and women

In late 2009, Rachel Cook made a split-second, middle-of-the-night decision that sent her on a global odyssey. Now it's changing her life—and potentially those of women around the world.

Cook was working as a trader in Chicago when late one evening, while tracking European trade behavior, she came across a *New York Times* column headlined "The Women's Crusade." Written by Nicholas Kristof, the piece explored a trend of microfinancing—the intimate loaning of small sums of money—between women, and its impact on poverty and destitution in certain parts of the world. Cook recalls texting her sister soon after reading the column, already having determined to re-route her career.

"I was often the only woman, or one of few women, at the trading firms I worked at," Cook says, explaining why she felt particularly drawn to the idea of woman-to-woman microfinancing. "It was weird to see that type of sexism still existed...especially among people in their twenties."

An English major who had studied film at Duke, Cook set out to explore how microlending was making a difference for women around the world. She has produced and directed a documentary film, titled *The Microlending Film Project*, that profiles four women who have benefited from microlending.

Among them are a Paraguayan woman named Pablina, who after exhausting her savings battling her son's cancer borrowed fifty dollars from a local microlender to make and sell cakes to tourists. She now owns a thriving business. Cook visited India, where her contact was a lender, CEO, and India's first female Air Force pilot, Anupama Joshi, and Kenya, where street vendors text orders directly from markets. She also visited Detroit, where the web-based microlending platform Kiva stationed its first "Kiva City" in May 2011. The film is now in its final editing, and she is submitting the work-in-progress to several film festivals for consideration. Meanwhile, she continues to solicit support to complete the

film and related projects.

Cook has conceived a mobile-device application that would allow users to lend small amounts of money to people in Kenya. "It's a game to make microlending fun," she explains. The game, which is being developed with the assistance of an undergraduate computer-science class, will use mobile banking to exchange funds between the lender and borrower. The parties also would be able to share text and video updates on how the money is used. The idea was a finalist in the 2011 Duke Start-Up Challenge, sponsored by Duke's Global Entrepreneurs Network (DukeGEN).

While she has not actively participated in any of the microloans featured in her film, Cook has made some loans of her own. "Microlending works and generally has a positive effect," she says. "I'm an advocate. I'm definitely an advocate."

—Aziza Sullivan

clerk to the Hon. Patrick E. Higginbotham on the 5th U.S. Circuit Court of Appeals in Austin, Texas.

Lekelia Danielle "Kiki" Jenkins '06 has been honored by Women of Color Empowered, a regional nonprofit for women of color, for her research in marine conservation and the resultant changes in Seattle environmental regulations.

'07 5th Reunion April 20-22, 2012

Bin Chen Ph.D. '08 received an Outstanding Scholar award as an assistant professor of electrical/computer engineering at Purdue University. Chen was recognized for his research in biomedical imaging, biological and medical image processing and analysis, mathematical modeling, simulation, and visualization.

Marsha Ann Hanly M.S.N. '08 served as lieutenant commander aboard the military sealift command hospital ship USNS *Comfort* as part of a humanitarian mission to the Caribbean and Central and South America last spring and summer, providing the U.S. military a mobile surgical facility. Hanly is an adult acute-care nurse specialist.

MARRIAGES: **Tina Coker** '00 to Darren Hammonds on April 2, 2011. Residence: Hayneville, Ala.... **Jaimie Alicia Slade** '02 to **Mark Francis Simmons** '98 on Sept. 17, 2011. Residence: Durham.... **Nicole Naomi Wilson** '02 to

Michael D. Schlegel on July 30, 2011. Residence: Reseda, Calif.... **Elizabeth Alice Ralston** B.S.E. '03 to Garrick Herbst on May 21, 2011. Residence: Davenport, Iowa.... **Jaclyn M. Marsanico** '04 to Jason Rodriguez on Aug. 21, 2010. Residence: Somerset, N.J.... **Marshall Aaron Botvinick** '06 to **Karen Nicole Burns** '07 on Sept. 4, 2011. Residence: Durham.... **Jillian Sarah Chesnick** '07 to **Joshua Andrew Cohen Fischer** M.B.A. '07 on July 3, 2011. Residence: New York.... **Joanna Elizabeth Forbes** '07 to Zachary Dreyfuss on April 30, 2011. Residence: Dallas.... **Emily Louise Meyer** '07 to **Douglas R. Ansel** '08 on Aug. 6, 2011. Residence: Raleigh.... **Jessica Blaire Burchell** '08 to **Thomas Andrew Donaho** '08 on Aug. 13, 2011. Residence: Houston.... **Aviva Lilith Okun** B.S.N. '08 to Lance A. Emmons on Sept. 10, 2011. Residence: Hillsborough, N.C.... **Caroline Anne Wheeler** '08 to Travis James Dziubla on Aug. 5, 2011. Residence: Honolulu.

BIRTHS: Second child and first son to **Nicole Carter Arnold** '00 and Steve Arnold on May 11, 2011. Named Stephen Alexander.... First child and son to **Keating Crown** '00 and Caroline B. Crown on Sept. 12, 2011. Named Georgia Beak Schine.... First child and son to **Brian E. Leach** '00 and **Michelle Patterson Leach** '00 on May 25, 2011. Named Peyton Tazwell.... Second child and first son to **Susan Lineback Previts** '00 and Frederick Previts on Aug. 1, 2011. Named Benjamin Frederick.... First child and daughter to

Melanie Shirley Taylor '00 and Lon Taylor on May 2, 2011. Named Mona Sophia.... First child and son to **Rhonda Lynn Bitting** '01 and **Nicholas Warren Sehn** '01, M.B.A. '11 on July 16, 2011. Named Brady Nicholas Sehn.... First child and daughter and second child and son to **Amy Koman Grady** '01 and Lannon Grady on April 6, 2010, and July 30, 2011. Named Zell MacKenzie and Flynn Spence Dewar.... First child and daughter to **Emily Crandall Harlan** '01 and Jeremy Harlan on March 24, 2011. Named Lucy Claire.... Second child and first son to **Shirin Odar** '01 and **Theodore Payne** '02 on July 30, 2010. Named Graham Enver Payne.... First child and daughter to **Elizabeth Hildenbrand Wirmani** '01 and Andrew Wirmani on Jan. 8, 2011. Named Adeline Eve.... First child and daughter to **Abigail Field Gerry** '02 and Lloyd Gerry on Nov. 11, 2011. Named Stephanie Livingston.... First child and daughter to **David B. King** '02 and Jennifer Jaeger King on Aug. 22, 2011. Named Ainsley Nicole.... First child and daughter to **Erin Smith Ahrens** '03 and Matthew Ahrens on July 12, 2011. Named Brooke Charlotte.... First child and son to **Virginia Stone Badanes** '03 and **David Williams Badanes** '04 on Aug. 18, 2011. Named Miller Hawkins.... First child and daughter to **Tyrell H. Hibbard** '03 and Mary A. Hibbard on Aug. 17, 2011. Named Genevieve Sieben.... Second child and first son to **Laura Edge Kottkamp** M.B.A. '03 and Nathan A. Kortkamp on July 15, 2011. Named Edwin August.... First child and son to **Carolyn Georgiade Rechkemmer** J.D. '03 and **Robert C. Rechkemmer** M.B.A. '03 on April 22, 2011. Named William Robert.... First child and son to **Kimberly Bartlett Usey** '04 and Michael C. Usey on Feb. 11, 2011. Named Thomas Lawrence.... Second child and first daughter to **Brian L. Funderburke** M.Div. '07 and Sarah Funderburke on Aug. 3, 2011. Named Hannah Elizabeth.

2010s

Karen Gonzalez Rice Ph.D. '10 has joined the faculty at Connecticut College as an assistant professor of art history. Her research explores Christianity and traumatic experience in contemporary American performance art.

MARRIAGES: **Lauren Egger** '10 to **Thomas Williamson Jr.** '10 on July 9, 2011. Residence: Chapel Hill.... **Lisa K. Jindra** A.M. '10 to James S. Wright on March 5, 2011. Residence: Durham.... **Stephanie Renee Lam** L '10, M.B.A. '11 to **William E. Nolan** J.D. '10 on Sept. 17, 2011. Residence: Arlington, Va.... **Caroline Grace Schermer** '10 to Justin Lebar on Aug. 13, 2011. Residence: New York.... **Jessica Kristin Allison** G '11 to Patrick M. Rossol on Aug. 23, 2008. Residence: Mission, Kan.... **Matthew M. Cowe** M.D. '11 and **Tawnie Kei Lee** D.P.T. '11 on May 21, 2011. Residence: Rochester, Minn.... **Catherine Kilbourn Roden** D.P.T. '11 to Brian Faulk on June 25, 2011. Residence: Andover, Mass.

BIRTH: First child and daughter to **Jessica K. Rossol-Allison** Ph.D. '11 and Patrick M. Rossol-Allison on July 18, 2010. Named Helena Louisa.

Duke Youth Programs

Where Summer Never Ends!!!

- Low teacher-student ratio
- Challenging, creative learning opportunities
- One to one help
- Professional, qualified staff
- Wide range of camp options
- Field trips, tours
- Fun, exciting residential life activities
- Opportunity to experience college life

Registration information:
www.learnmore.duke.edu
youth@duke.edu
919-684-6259



Deaths

Helen Grace Dikeman '34 of Topsfield, Mass., on Sept. 13, 2011. She spent her professional life as a librarian at Monsanto Chemical Co.

Rob V. Fiser Sr. '34 of Lumberton, N.C., on June 8, 2006. Survivors include a son, a daughter, four grandchildren, and two great-grandchildren.

Dorothea P. Finch '35 of Thomasville, N.C., on Aug. 23, 2011. She is survived by a daughter, four grandchildren, and three great-grandchildren.

N. Piper Belvin '36 of Elizabeth City, N.C., on Aug. 2, 2011. He worked for Kramer Lumber Co. and served in the Coast Guard. He is survived by two sons, three grandsons, and five great-grandchildren.

Mary C. Matthews A.M. '37 of North Garden, Va., on Sept. 6, 2010.

Norma Marcus Matz '37 of La Gorce Island, Fla., on Aug. 13, 2011. She was a founder of Mount Sinai Medical Center and Douglas Gardens, and a major supporter of the University of Miami. She also contributed to the Children's Resource Fund and the Women's Cancer League. She is survived by a daughter, two grandchildren, and two great-grandchildren.

Louise Warren Wyman '37 of St. Louis, on June 10, 2011. She was the teacher at a one-room schoolhouse in Pagosa Springs, Colo., before becoming an English teacher in Cadillac, Mich. She is survived by two sons, six grandchildren, and five great-grandchildren.

Clayton C. Carter '39 of Centreville, Md., on July 30, 2011. A World War II veteran, he served as state's attorney, county commissioner, and District Court judge before sitting on the Circuit Court bench as chief judge in Queen Anne's County, Md. He is survived by three daughters and three grandchildren.

Rufus C. Boutwell Jr. '40, LL.B. '47 of High Point, N.C., on Aug. 31, 2011. After receiving his degree, he joined the Air Force and worked for the Judge Advocate General's Corps. He retired as a colonel but continued in public service, working as an assistant city attorney in Durham. He is survived by two daughters, two sons, a brother, six grandchildren, and six great-grandchildren.

Maggie Jones Erwin '40 of Emerald Isle, N.C., on Sept. 10, 2011. She was active in the auxiliary to the Medical Society of Scotland County and the North Carolina Medical Society. She is survived by three sons and two grandchildren.

Foy Lee Lunsford '40 of Kona, Fla., on March 17, 2011. He was a World War II veteran, a vocational rehabilitation counselor, and a former branch chief of rehabilitation for Social Security at Maryland's Social Security headquarters. He is survived by a daughter, a son, five grandchildren, and two great-grandchildren.

Laurine "Jane" Davis Smith '40 of Conyers, Ga., on July 10, 2011. She was an educator for 33 years before retiring as a principal for the City of Decatur school system. She was a member of the Association for Childhood Education International and the Georgia Auxiliary of the Association of

JEAN FRANCOIS HELIAS



One for the books: Ma with his record-breaking catch

Michael Ma A.M. '10 Making a (very) big catch

The murky waters of the lake in Theerasart, Thailand, had begun to reflect the setting sun, and Michael Ma knew that his long day of fishing was almost at its end. What he did not know was that a massive inhabitant of the lake was about to propel Ma's name into the record books.

Ma, a self-proclaimed fishing fanatic, has traveled the world to fish as often as his schedule permits, casting his line in the waters of Aruba, Puerto Rico, and Patagonia, among other locations. He was drawn to Thailand by fishing guide Jean Francois Helias, who had helped other amateur anglers reel in record-breaking spotted featherebacks, alligator gar, Mekong giant catfish, and freshwater stingrays.

But with the day at its end, Ma began to doubt that he would be able to catch anything of note, much less a record-breaker. He hooked a small tilapia onto the line and cast it out ten yards. The bait sank. A few moments later, Ma felt a forceful tug. A battle commenced, and a group of locals standing nearby began to watch intently as Ma calmly fought the pull of the unknown beast. Ma could feel that this fish was big, maybe huge, but it did not fight ferociously as would the saltwater fish that he is used to reeling in.

"Just think of a very stubborn person who plays tug of war with you for half an hour," Ma says, explaining the characteristic challenge of landing a freshwater fish. "With freshwater fish of this size, they are going to go in a couple different directions—that's it—you're just coming for the ride. No acrobatics, no tricks, no deep diving."

Ma is accustomed to handling the tricks and the acrobatics. Growing up in the town of Darien, Connecticut, he lived a five-minute drive away from Long Island Sound. His father introduced him to bass fishing at an early age, and before long he fell in love with deep-sea fishing, where the fish are bigger and admittedly a bit more aesthetically pleasing—majestic marlins and sleek swordfish—than the snub-nosed snakeheads and carp typical of freshwater lakes and rivers. "I'm actually kind of a deep-sea fishing guy," he says.

After twenty-seven minutes of battle, Ma finally reeled the resilient fish out of the water, revealing a massive redbtail catfish. Hearing the gasps of the crowd and his guide, Ma suspected that this catch had record-breaking potential. A measuring tape was brought out and the fish was determined to be 109 centimeters long, significantly longer than the previous record of 103 cen-

timeters. Interestingly enough, the fifty-five pound catfish did not come close to the record in weight, which is held by a 123-pounder caught in Brazil's Amazon River. "That must have been one fat fish," Ma jokes. "I wouldn't have wanted to catch that offensive lineman!"

With one world record to call his own, Ma admits that he would love to pursue additional honors. However, he is not quite ready to make fishing his full-time job for fear that it will eliminate the fun it holds for him. To Ma, fishing will always be a leisurely escape, a counterbalance to his work in real estate and as a co-owner of a college preparatory business. A firm proponent of catch and release, Ma hopes that stricter international fishing regulations can be implemented so that fishing for food or fun can remain sustainable.

Asked whether he ever considered throwing his new world record on the grill, Ma responds "No, any fish that gets to a fighting size like that deserves to live." Besides, the redbtail catfish is considered inedible by the locals. Ma unhooked his piscine claim to fame and set it free, knowing that there would be more epic fishing battles in each of their futures.

—Dan Altman



ALEXANDER CALDER AND CONTEMPORARY ART: FORM, BALANCE, JOY FEBRUARY 16-JUNE 17, 2012

Tickets on sale at 919-684-4444, or events.duke.edu/calder. Nasher Museum Members receive two free tickets per day.

www.nasher.duke.edu

Alexander Calder and Contemporary Art: Form, Balance, Joy is organized by the Museum of Contemporary Art, Chicago. The exhibition is sponsored by The Northern Trust Company. Lead foundation support is provided by the Terra Foundation for American Art and the Chicago Community Trust. Major support for the exhibition is generously provided by The Kenneth and Anne Griffith Foundation. Additional generous support is provided by Margot and George Greig, Anne and Burt Kaplan, Ruth Horwich, The Broad Art Foundation, Gagosian Gallery, Lindy Bergman, Helyn Goldenberg, Sara Szold, and The Elizabeth F. Cheney Foundation. At the Nasher Museum, major individual support for the exhibition is provided by Frances P. Rollins, Marilyn M. Arthur, Trent and Susan Carmichael, Drs. Victor and Lenore Behar, Kathi and Stephen Eason, and Mindy and Guy Solie. Additional generous support is provided by Deborah DeMott, Nancy Palmer Wardropper, The E. T. Rollins Jr. and Frances P. Rollins Fund, Jo and Peter Baer, Paula and Eugene Flood, Kelly Braddy Van Winkle and Lance Van Winkle, Carolyn Aaronson, Pepper and Donald Fluke, Diane Evia-Lanevi and Ingemar Lanevi, Caroline and Arthur Rogers, Angela O. Terry, and Richard Tigner. Major corporate and grant support for the exhibition is provided by NetApp and the N.C. Arts Council, a division of the Department of Cultural Resources. Additional corporate support is provided by Duke's Pratt School of Engineering, Parker and Otis, Sigma Xi, The Scientific Research Society, Clinical Ambassador, and *American Scientist* magazine.

ABOVE: Alexander Calder, *Blue Among Yellow and Red*, 1963. Painted sheet metal and steel wire, 43 x 63 inches diameter. Museum of Contemporary Art Chicago, The Leonard and Ruth Horwich Family Loan (EL1995.12). © 2011 Calder Foundation, New York / Artists Rights Society (ARS), New York. Photo by Nathan Keay. © MCA Chicago.

Postal Supervisors, among others. She is survived by a son, a daughter, eight grandchildren, and 11 great-grandchildren.

Virginia Spence Westlake '40 of Charlotte, on Sept. 13, 2011. She worked for Durham Life Insurance. She is survived by a son, a daughter, and a brother, **Talmage T. Spence Jr.** '50.

Robert H. Creamer B.S.M.E. '41 of Tuscaloosa, Ala., on July 25, 2011. While at Duke, he co-founded *DukEngineer*, a publication still in existence. During World War II, he tested gunpowder as a ballistics engineer for DuPont. He was the first associate dean of Temple University's College of Engineering Technology and retired as professor emeritus. He also wrote the textbook *Machine Design*. He is survived by two children, four granddaughters, and a great-grandson.

Margaret Barnes Davis '41 of Cheswick, Pa., on Nov. 24, 2008.

James A. Ford '41 of Winter Park, Fla., on Aug. 29, 2011. He served in the Army at Saipan during World War II and earned a medical degree after the war. He practiced internal medicine in Winter Park and was a member of several medical organizations, including the American Society of Internal Medicine and the Florida Medical Association. He is survived by his wife, Anna, and two stepsons.

Thomas W. Holtzman '41 of Paxtang, Pa., on Aug. 9, 2011. He was a dentist and officer in the Navy and was awarded the championship title for golf at the Hershey Country Club in Pennsylvania. He is survived by his wife, Jeannette; a daughter; a son; five grandchildren; and four great-grandchildren.

Nancy Adelaide Hook M.Ed. '41 of Knoxville, Tenn., on Aug. 4, 2011. She was an officer in the Navy during World War II before returning to Knoxville to work for the Tennessee Valley Authority. She is survived by two daughters, two grandsons, and a great-grandson.

Donald S. Stackhouse '41 of Florham Park, N.J., on Aug. 28, 2011. He was a captain in the Army Air Corps during World War II. He later worked in the financial and corporate-management field for various companies, including J.T. Baker Chemical, Allied Chemical, and Richardson-Merrell. Most recently, he was the owner of Star Recruiters in North Plainfield, N.J. He is survived by his wife, Elizabeth; a son, **Douglas E. Stackhouse** '68, B.H.S. '78; and two brothers.

Emily Vaughan Allen '42 of Charlotte, on July 4, 2011. At Duke she was coed business manager of the *Duke 'n' Duchess* magazine. She is survived by three sons; a brother, **Joseph L. Vaughan** '55; and a granddaughter.

Robert E. Foreman '42 of Elizabeth City, N.C., on Aug. 25, 2011. During World War II, he served as a naval aviator and flight instructor in the Pacific theater. After the war, he worked for the L.R. Foreman & Sons lumber company, eventually becoming president. He is survived by his wife, **Kathleen Watkins Dale-Foreman** '43; a daughter; and two granddaughters.

Sumner P. Jones '42 of Franklin, W.Va., on Nov. 14, 2010.

Need to change your mailing address? E-mail bluedevil@duke.edu

Byron Clay Cravens B.D. '43 of Fort Smith, Ark., on Sept. 13, 2011. He served as a Methodist minister in Oklahoma for 20 years. He later became head of Hunt Department Stores. Upon retirement, he served as a director of the board of First National Bank. He is survived by his wife, Linda; two daughters; a son; seven grandchildren; and five great-grandchildren.

Kathryne "Kitty" Craig Smith '43 of Titusville, Fla., on July 7, 2011. She was president of the Royal Oak Women's Golf Association of Titusville and a member of the Florida Women's Golf Association. She was also a Professional Golfers' Association volunteer. She is survived by two daughters, a son, five grandchildren, and four great-grandchildren.

Thoburn R. Snyder '43, M.D. '45 of Springfield, Pa., on Nov. 8, 2010. Survivors include his wife, **Mary Novella Snyder** '44.

Martin M. Cummings M.D. '44, Hon. '85 of Sarasota, Fla., on Sept. 1, 2011. He had a distinguished career in public service, holding positions at the Centers for Disease Control and Prevention in Atlanta, the Veterans Administration, and the National Institutes of Health. He served as chair of the department of microbiology at the University of Oklahoma School of Medicine and was director of the National Library of Medicine from 1964 to 1983. He is survived by three sons and a granddaughter.

Thomas G. Hart '44, J.D. '50 of Redding, Conn., on July 21, 2011. He was an Army Air Corps pilot during World War II and a captain in the Judge Advocate General's Corps during the Korean War. He negotiated and administered contracts with the CIA for advanced flight developments. Most recently, he served as vice president of legal affairs for Bowater Paper. He is survived by a son, two daughters, and five grandchildren.

Grace E. Martin '44 of Reading, Pa., on Sept. 22, 2011. She was a cadet nurse for the Army during World War II. Following her service, she worked in the nursing field for 42 years, retiring in 1983. Survivors include a nephew and a niece.

Ernest Carl Phifer B.Div. '44 of Madisonville, Texas, on Sept. 22, 2010. He was a chaplain with the Marines during World War II, where he served in Japan and China. He was also the longest-tenured pastor in the Texas Annual Conference, serving for more than 50 years as a pastor, district superintendent, and area provost. He is survived by two sons, a daughter, a brother, two sisters, seven grandchildren, six great-grandchildren, and three great-great-grandchildren.

Edward Rocap '44, LL.B. '48, of Hillsborough, N.C., on Aug. 11, 2011. He joined the Army Air Forces during World War II. After his service, he was a lawyer in Media, Pa., for more than 50 years. He also attended the first Presidential Prayer Breakfast in Washington with President Eisenhower. He is



Retire To A Place You Know And Love

- Carefree gracious apartment and cottage living
- Renowned cultural, educational, fitness & wellness programs
- Trusted Duke directed, on-site healthcare



Premier Retirement Living Since 1992

2701 Pickett Road, Durham, NC 27705

919.490.8000 • 800.474.0258

www.forestduke.org



survived by his wife, Ann; two daughters, including **Mary Rocap** '55; a son, **Donald E. Rocap** '77; 11 grandchildren; and three great-grandchildren.

Alma McKenzie Scholl R.N. '41 of Southern Pines, N.C., on Nov. 27, 2010. She served in the Army during World War II. She is survived by a son, two daughters, a brother, six grandchildren, and three great-grandchildren.

Floyd H. "Pete" Bradley Jr. '15 of Tinton Falls, N.J., on Sept. 18, 2011. He served as a first lieutenant in the Army Air Forces during World War II, completing 35 combat missions over Germany. After his service, he completed his education at Rutgers University and went to work for Prudential Insurance Co. as an advertising manager. He is survived by a son; a daughter; two brothers; and four grandchildren, including **Melissa C. Bradley** '12.

John B. Lewis '15, B.S.E.E. '47 of Bayboro, N.C., on April 24, 2010. He was ordained as a minister and served as assistant pastor of the Holy Church of God in Christ Jesus Alliance. He also was employed at Cherry Point Air Station in the Texas Gulf, and in the home-construction industry as a cement finisher. He is survived by six sons, three daughters, six brothers, three sisters, 85 grandchildren, 205 great-grandchildren, 265 great-great-grandchildren, and 28 great-great-great-grandchildren.

Robert F. Nietman '45 of Fayetteville, N.C., on July 29, 2011. He worked for the National Her-

itage Group, a cemetery company, for 16 years. He is survived by his wife, Kathy; a son; a daughter; and a grandson.

Ernest B. Page Jr. '15, M.D. '49 of Raleigh, on Sept. 13, 2011. After serving in the Air Force, he practiced internal medicine in Raleigh for 37 years. He held several leadership roles in his lifetime, serving as president of both the Raleigh Society of Internal Medicine and the Wake County Medical Society. He also went on 11 medical missions to Villahermosa, Mexico, as part of a church program. He is survived by his wife, **Nina Musselman Page** '45, M.D. '49; five children; a sister; 11 grandchildren; and three great-grandchildren.

Donald R. Tope '15 of Bloomfield Hills, Mich., on April 15, 2011.

Charles P. Wiles A.M. '45, Ph.D. '51 of Dallas, on Sept. 3, 2011. He served in the Coast Guard during World War II. He later became rector and dean of St. Matthew's Episcopal Cathedral, a position he held for 23 years. He is survived by his wife, Mary; two sons; a daughter; and five grandchildren.

James B. Wilson '45 of Kennett Square, Pa., on Jan. 24, 2011. Survivors include a brother, **Penrhyn Wilson Jr.** '41, and a daughter-in-law, **Margaret Ashworth Wilson** '71.

Saul A. Frankel M.D. '46 of Sarasota, Fla., on Jan. 5, 2009. He served as a battalion surgeon with

the 7th Infantry Division during the Korean War. He then joined the faculty of the Yale School of Medicine and wrote several scientific papers. In 1961, he entered private neurosurgical practice in New Haven, Conn. He was an attending surgeon at the Yale New Haven Hospital and the Hospital of Saint Raphael and remained a member of the clinical faculty of the Yale Medical School until his retirement in 1991. He is survived by his wife, Miriam; two daughters; a son; and two grandsons.

Enrique Montero HS '46, HS '47 of Griffin, Ga., on July 1, 2011. He practiced both anesthesiology and pulmonology during his lifetime. He was a fellow emeritus at the American College of Chest Physicians and of the American Thoracic Society. He is survived by his wife, **Ellen G. Montero** R.N. '47, B.S.N. '48; two children; eight grandchildren; and a great-grandchild.

William D. Sampsel M.Div. '46 of Frederick, Md., on May 15, 2011. He served as a Methodist minister in the Baltimore and Washington districts for 40 years. He is survived by his wife, Joan; five children; six grandchildren; and two great-grandchildren.

Anna Jane Albertson '47 of Fredericksburg, Va., on July 20, 2011. She served as director of the City of Alexandria Public Health Department. She was also a volunteer physician on an Indian reservation in Colorado. She is survived by two children and four grandchildren.

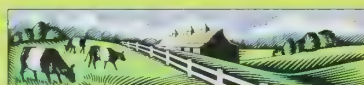
Richard H. Allsopp '47 of Lakeland, Fla., on Aug. 19, 2011. After serving in the Navy during World War II, he worked in his family's insurance business, which is now Jefferson-Allsopp Insurance. He is survived by his wife, Sally; a son; a daughter; and a grandson.

Harold S. Bloomenthal J.D. '47 of Denver, on Aug. 22, 2011. Before earning his law degree, he served in the Army Air Corps. He later practiced law as an enforcement attorney in the Denver office of the Securities and Exchange Commission. He was also a law professor at the University of Wyoming for 20 years. He wrote the *Securities Law Handbook*, one of the definitive works on securities law. He is survived by his wife, Randi; two children; and three grandchildren.

Uel L. Carrier B.S.M.E. '47 of Piney Flats, Tenn., on Sept. 13, 2011. He worked for North American Rayon Corp.

Manton R. Frierson Jr. M.F. '47 of Columbia, S.C., on July 7, 2011. He served in the Army during World War II in the Philippines. He was a forester for the Florida Forest Service and West Virginia Pulp & Paper Co. He is survived by his wife, Lillian; five sons; 15 grandchildren; and six great-grandchildren.

Richard D. Gillespie '47 of Charlotte, on June 16, 2011. He served in the Army during World War II and received a Purple Heart. He worked as an architect at Odell Associates and was involved in the designing of the Charlotte Coliseum, Owens Auditorium, and Charlotte Public Library. He is survived by his wife, Mary May; a son; and three grandchildren.



GALLOWAY RIDGE AT FEARRINGTON

Distinctive Retirement Living



Rediscover... *the benefits of a solid reputation.*
Rediscover Galloway Ridge at Fearthington.

Galloway Ridge is the trusted choice for distinctive retirement living. As a non-profit community, we are dedicated to the satisfaction of our residents. So we never stop finding ways to get even better.

Like expanding our amenities and adding new apartments. And being the only one with an on-site Duke Center for Living Health and Fitness

Center, designed to help you make positive and lasting lifestyle changes. Plus, we've adjusted our pricing—so there's never been a more exciting time to rediscover Galloway Ridge!

Six years strong and here to stay.

(919) 545-2647 or (888) 763-9600

3000 GALLOWAY RIDGE • PITTSBORO, NC 27312 • WWW.GALLOWAYRIDGE.COM
OPEN MONDAY THROUGH FRIDAY, SATURDAY 10 A.M.-2 P.M. AND SUNDAY 1-4 P.M.



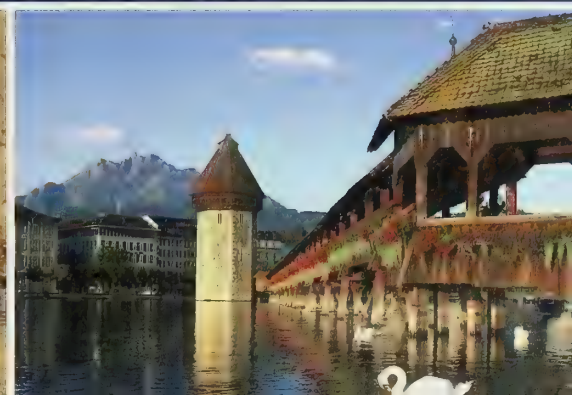
Travel *with* Duke

Your friends. Your faculty. Your dream destinations.

Where do you want to go next?

www.dukealumnitravel.com

Duke
ALUMNI ASSOCIATION



Joseph G. Gurley B.S.E.E. '17 of Los Angeles, on July 31, 2011. He is survived by his wife, Mary; and two brothers.

Linton R. Lovett J.D. '17 of Covington, Ga., on July 30, 2011. He served in the Navy during World War II, after which he worked for the State Department. He was first assigned to Germany to aid in its democratization and civilian transformation. He later worked as an attaché at the U.S. embassy in Tehran, Iran. Following his career in foreign service, he practiced law in Miami. He is survived by his wife, Martha.

Anna "Madge" McLendon Mayer R.N. '17 of McComb, Miss., on Sept. 16, 2011. She worked at various hospitals as a staff nurse. She is survived by four sons, a daughter, and 14 grandchildren.

W. Burkette Raper '47, B.Div. '52 of Mount Olive, N.C., on Aug. 1, 2011. He was the president of Mount Olive College, a two-year liberal-arts college owned and operated by the North Carolina State Convention of Original Free Baptists and, at the age of 26, was the youngest college president in the U.S. He was also the longest-tenured college president in the U.S. He is survived by his wife, Rose; four daughters; a son; nine grandchildren; and six great-grandchildren.

Jean Patee Eaves '48 of Durham, on May 23, 2011. In 1972, she began publishing EcoTips,

guidelines for household sustainable living. She founded the Durham Energy Information Office in 1977. She was also a member of the Durham Library Foundation board of directors and a co-founder of Sun Shares, a national nonprofit in Durham. She is survived by three daughters and four grandchildren.

Zeno L. Edwards Jr. '48 of Greenville, N.C., on Aug. 20, 2011. After serving in the Navy, he practiced dentistry in Washington, N.C., for many years. He later served four terms in the N.C. General Assembly, where his main contributions were made in the health-care field. He is survived by his wife, **Rosemarie Wilson Edwards** '49; three sons, including **Zeno L. Edwards III** '74 and **Seth H. Edwards** '87; a daughter; a sister; 12 grandchildren; and two great-grandchildren.

Bettye J. Gwaltney '48 of Hot Springs, Ariz., on June 29, 2009. She is survived by a sister.

Beth Huftalen Kemen P.T. Cert. '48 of Ithaca, N.Y., on July 13, 2011. She worked at Gannet Medical Clinic at Cornell University for 30 years. She is survived by her daughter and her brother.

Bobbie M. Morgan '48 of Spotsylvania, Va., on Aug. 3, 2011. She was a member of Messiah United Methodist Church. Survivors include a son, **William E. Morgan** '77; two sisters, **Marie Morgan Sims** '46 and **Jane Morgan**

Franklin '55; a brother-in-law, **John B. "Bo" Sims** '44; and three grandchildren.

Frank W. Whatton '48 of Louisville, Ky., on Aug. 14, 2011. He served in the Army Air Corps during World War II. He was active in graveure professional associations. He is survived by three sons, a sister, eight grandchildren, and five great-grandchildren.

William B. Fleming '49 of Ravenswood, W.Va., on July 6, 2011. He served in the Army in World War II in the European theater. He received a Bronze Star and a Purple Heart. After his service, he worked as a production supervisor at Kaiser Aluminum Chemical Co. He is survived by his wife, Rowena; a daughter; four sons; 11 grandchildren, including **Jared F. Landis** '05; and a great-granddaughter.

Eugenia Stone Garland '49 of Fitzgerald, Ga., on July 13, 2011. She taught Sunday school at her church for many years and worked at a local antiques shop. She is survived by three daughters, a son, a sister, three grandchildren, and two great-grandchildren.

Robert C. Kanoy Jr. '49 of Richmond, Va., on July 3, 2010. He served in the Army during World War II. He is survived by his wife, Betsy; a son; and two grandchildren.

Suydam "Syd" Osterhout M.D. '49 of Durham, on Sept. 14, 2011. After graduating from Duke Medical School, he served in the Air Force as a flight surgeon. He was a professor of medicine and microbiology at Duke in 1972 and later became the associate dean of admissions for Duke Medical School. He received the Thomas Kinney Award for excellence in teaching and retired as professor emeritus in 1991. He is survived by his wife, **Shirley Osterhout** '53, M.D. '57; a daughter; a son, **Martin H. Osterhout** '85; and four grandchildren.

Eugene G. Perkins Jr. M.F. '49 of Atlantic Beach, N.C., on June 29, 2011. He is survived by his wife, Peggy; a daughter; a son; and three grandchildren.

Shirley Kemper Roobin '49 of Macon, Ga., on Sept. 13, 2011. She served two terms as president of the Macon chapter of Hadassah and later served as president of the Macon Federation of Jewish Charities. She received the Hadassah National Leadership Award. She is survived by two daughters, seven grandchildren, and four great-grandchildren.

John S. Watts Jr. B.S.M.E. '49 of Clearwater Beach, Fla., on Nov. 2, 2009.

Philip S. Woodbury '49, M.D. '53 of Eufaula, Ala., on Aug. 19, 2011. After graduating from medical school, he served in the Army during the Korean War. He then began a medical practice in Eufaula, which he ran for 50 years. Survivors include his wife, Becky; nine children; and a brother.

Rose Jones Butler '50 of Jacksonville, Fla., on July 13, 2011. She worked with one of her sons at his Mailbox Etc. business while serving the community as a volunteer. She is survived by her



MEMORIAL GARDEN • SARAH P. DUKE GARDENS

IMAGINE ... a garden of serenity, with exquisite plantings and shaded benches where family and friends can gather and reflect, in the heart of Duke Gardens.

Stones line the winding paths, engraved with the names and stories of those whose ashes are buried here.

A charitable contribution to the Gardens endowment is required, which may be part of estate plans.

For information, please contact:

Memorial Garden
Duke University, Box 90341
Durham, NC 27708
919-668-3604
bill.lefevre@duke.edu
gardens.duke.edu

daughter, two sons, six grandchildren, and two great-grandchildren.

Arbor W. Gray LL.B. '50 of Wilmington, N.C., on Aug. 2, 2011. He served in the Navy and the Marine Corps Aviation as a fighter pilot during World War II. After his service in the war, he worked as a special agent for the FBI for 23 years. Survivors include his wife, Anne; two sons; a stepson; a stepdaughter; and a brother.

Boyd Blaydes Sawyer '50 of Atlanta, on July 16, 2011. She worked in Barnes Hospital in St. Louis and began graduate school at the age of 58, receiving a master's in journalism from Dartmouth College. She is survived by two daughters, two stepdaughters, a stepson, a brother, and six grandchildren.

Norman T. Sharpe '50 of Highlands, N.C., on June 4, 2011. He served in the Army during the Korean War and was a dentist and member of the Holy Trinity Episcopal Church in West Palm Beach, Fla. He is survived by his wife, Marie; a daughter; two sons; five grandchildren; and a great-grandson.

William E. Fenner B.S.M.E. '51 of Rocky Mount, N.C., on July 13, 2011. After serving in the Air Force for four years, he began his own consulting engineering firm, Fenner and Proffitt, where he served as co-owner and president until his retirement in 2004. He is survived by two daughters, three sons, a sister, and eight grandchildren.

William E. Glabau '51 of Coos Bay, Ore., on July 29, 2011. He served in the Army Air Corps during World War II, stationed in England. He later worked for the Bureau of Land Management in Coos Bay until his retirement in 1985. He is survived by his wife, Vivian; a daughter; a son; a brother; three sisters; six grandchildren; and a great-granddaughter.

Jane Madeline Hall '51 of Tampa, Fla., on May 30, 2011. She worked for Verizon and volunteered at the H.B. Plant Museum in Tampa. She was also a docent at the Lowry Park Zoo for 23 years.

Charlotte Best Olson '51 of Sarasota, Fla., on June 25, 2010. She is survived by two daughters; two brothers, **William J. Best** B.S.M.E. '59 and **Richard K. Best** B.S.M.E. '50; and five grandchildren.

Bobby Gene Beck '52 of Burlington, N.C., on Sept. 19, 2011. After serving in the National Guard, he became vice president of Glen Raven Mills, a position he held for 28 years. He is survived by his wife, Nancy; two sons; seven grandchildren; and two great-granddaughters.

Jane Bolmeier '52 of New York, on July 11, 2011. She was one of the artists featured in the book *100 New York Painters*. She is survived by her twin sister.

Catherine Ballard Cover '52 of Baltimore, on Dec. 7, 2010. Survivors include a daughter and two grandchildren.

Ruth Wills Crandall '52 of Vero Beach, Fla., on May 7, 2011. Survivors include her husband, **Chauncey W. Crandall III** '52, and a brother, **Bruce B. Wills Jr.** '52.

Need to change your mailing address? E-mail bluedevel@duke.edu

Porter F. Crawford HS '52 of Palm Harbor, Fla., on Sept. 17, 2011. During World War II, he completed the Army Specialist training program for a degree in dermatology. He went into private practice in South Carolina, later becoming the head of the dermatology department at Upjohn Co. in Kalamazoo, Mich. He worked at the Mease Clinic in Dunedin until his retirement in 1987. He is survived by his wife, Hilda; three daughters; and two grandchildren.

Carl V. Harris Ph.D. '52 of Winston-Salem, on Aug. 9, 2011. He was a teacher for 40 years, spending 33 of them at Wake Forest University, where he received the Award for Excellence in Advising Students in 1988 and the Joe Reinhardt Award for Distinguished Teaching in 1990. He was a member of the American Philological Association, the American Society of Church History, and the American Association of University Professors. He is survived by his wife, Lucille.

Glenn A. Marlin B.S.M.E. '52 of Winston-Salem, on Sept. 26, 2010. While at Duke, he was student-body president of engineering. After serving in the Army during World War II, he worked for Western Electric for 30 years. He is survived by a daughter, two grandchildren, and two great-grandchildren.

Henry D. Neal '52 of Morganton, N.C., on Sept. 18, 2009. He was an administrator at James Walker Hospital in Wilmington, N.C. He is sur-

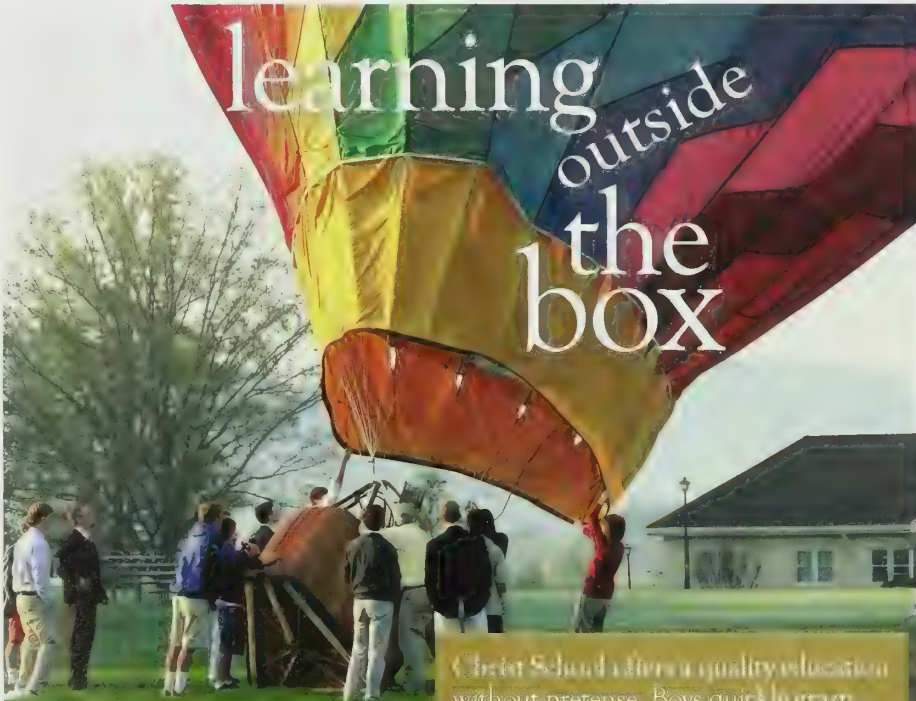
vived by his wife, Jane; a daughter; a brother; a sister; and two grandsons.

Athelle Coleman Parker R.N. '52 of Winterville, N.C., on April 19, 2011. She worked as a nurse at Moore Regional Hospital in Pinehurst, N.C. She is survived by her husband, Roy; four daughters; a son; a brother; four grandchildren; and three great-grandchildren.

Oscar M. "Mack" Reinmuth M.D. '52 of Tucson, Ariz., on Sept. 23, 2011. He was a professor at the University of Pittsburgh School of Medicine, where he also chaired the department of neurology for 16 years. His work in neurology contributed greatly to the discovery of L-Dopa, a drug that helps treat symptoms of Parkinson's disease. He is survived by three children, including daughter **Diane Reinmuth Waldman** '79; six grandchildren, including **Kelly Alexis Waldman** B.S.E. '11 and **Katharine Elizabeth Waldman** '14; and a great-granddaughter.

Jeanette "Denny" Cool Sackett '52 of Vancouver, Wash., on June 3, 2011. She studied English and music while at Duke. She was a member of the Thistle Class Association, a racing-class sailors' group; the Mentor Harbor Yachting Club; and the Leatherlips Yacht Club. She is survived by three daughters, a son, a sister, and five grandsons.

Ronald L. "Roy" Skinner Jr. '52 of Florence, S.C., on March 24, 2011. He worked at Jeter-Skin-



learning
outside
the
box

Christ School offers a quality education without pretense. Boys quickly grasp that learning is not just a classroom event — it's the high connection of "book knowledge" to "life knowledge."

CHRIST SCHOOL
ASHEVILLE, NORTH CAROLINA
www.christschool.org
1.800.422.3212

A college-preparatory boarding and day school founded in 1900 for boys in grades 8 through 12

ner Family Practice for 15 years and was a member of the South Carolina Medical Association, the Florence County Medical Society, and the American Academy of Family Practice. Survivors include his wife, Juanita; three sons; a brother; and four grandchildren.

Sandra Faber Vordermeier '52 of Fort Lauderdale, Fla., on June 25, 2011. Survivors include her husband, Harry; a sister, **Karen Faber Laffredi** '61; and a niece, **Sharon Lynn Thompson** '86.

William L. Dunn Jr. Ph.D. '53 of Richmond, Va., on Aug. 17, 2011. He served as a Navy lieutenant in World War II and took part in the assault on Iwo Jima. After working at several Virginia hospitals, he joined the research-and-development department at Philip Morris. He is survived by his wife, Elisabeth; four children; and six grandchildren.

Charles E. Graves Jr. '53 of Sheridan, Wyo., on Aug. 22, 2011. He owned a law practice in Cheyenne. Later he was appointed by President Carter as the U.S. attorney for Wyoming. He is survived by his wife, Halene; four daughters; a son; several grandchildren, including **Eric A. Pince** '09; and several great-grandchildren.

Nicholas R. Huffer B.S.M.E. '53 of Toledo, Ohio, on Sept. 19, 2011. He is survived by his wife, Margaret; three children; two brothers; and nine grandchildren.

George J. Kintz '53, LL.B. '58 of Danville, Va., on Sept. 23, 2011. After serving in the Army during the Korean War, he began his 16-year career at Dan River Inc., where he worked as an accountant and later served as vice president of taxes. He is survived by his wife, Barbara; four children; and nine grandchildren, including **Erica Nichole Kintz** '05.

Patricia Cohoon Lamb '53 of Matthews, N.C., on May 19, 2011. She taught first at Myers Park High School in Charlotte and later as a professor of psychology at Piedmont Tech Community College. She is survived by two sons.

Shirley J. Markee '53, M.D. '58 of Vancouver, Wash., on June 25, 2011. She was a faculty member at Columbia Presbyterian Medical Center in New York. She also held academic positions at Stanford University Medical Center and Cedars Sinai Medical Center in Los Angeles for more than 30 years. She is survived by a brother.

Gerald C. Calleson B.S.M.E. '54 of Wetumpka, Ala., on June 20, 2010. Survivors include a son, **Gerald T. Calleson** '85, and daughter-in-law, **Diane Coucoulas Calleson** '86.

Kenneth W. Howard M.Div. '54 of Palm Springs, Calif., on July 30, 2011. He was a United Methodist minister for 40 years, serving in South Carolina and Oklahoma, where he was on the conference boards of ordained ministry, church, and so-

ciety, and the Francis Willard Home. He taught English in China and preached in Brazil and Malaysia. He is survived by his partner, Bill Gray; two sons; two daughters; a brother; two sisters; six grandchildren; and four great-grandchildren.

Catherine "Kitty" Smith Joyner '51 of Greenville, N.C., on Aug. 2, 2011. She cofounded the Oakwood School with her husband and served on the board of directors for the Greenville Art Center. She and her husband also endowed several scholarships at East Carolina University, including a University Honors Scholarship. She is survived by her husband, Max; two daughters; a son; a brother; eight grandchildren; and a great-granddaughter.

Leonard A. Burgin HS '55 of Cincinnati, on Feb. 12, 2011. He is survived by his wife, June; four children; and five grandchildren.

Carl J. Dispenziere Sr. '55 of Los Angeles, on June 29, 2011. He worked for Dow Chemical before serving in the Army for two years. He later started a plastics injection molding company, Performance Engineered Products, in Pomona, Calif. He is survived by his wife, Pat; a son; a daughter; a sister; and three grandchildren.

Margaret Barber Fehrs '55 of Douglas, Ga., on July 15, 2011. She is survived by her husband, William; three children; two sisters; a brother; 10 grandchildren; and two great-grandchildren.

Gene Houston Little B.D. '55 of Richmond, Va., on July 8, 2011. He served as a Methodist minister in the Western North Carolina Conference and was elected to the Jurisdictional and General Conferences of the United Methodist Church. He is survived by his wife, Carolyn; two children; and three grandchildren.

Roland R. Wilkins J.D. '55 of Durham, on Sept. 24, 2011. He worked for Duke for nearly 30 years. He also consulted on major-gift campaigns at Peace College in Raleigh and Hollins University in Roanoke, Va. He is survived by his wife, Ray; a daughter; a son; and a grandson.

Patricia Stansbury Anderson '56 of High Point, N.C., on July 10, 2011. She is survived by her husband, Warren; three daughters; seven grandchildren; and a great-granddaughter.

Donald O. Coughlin '56 of Forty Fort, Pa., on Sept. 14, 2011. He served in the Marine Corps as a career officer, serving two tours of duty in Vietnam. He retired with the rank of major after 20 years of service. He is survived by a sister.

Patricia Tronolone Finney '56 of Coconut Creek, Fla., on Nov. 19, 2010. She volunteered for more than 30 years with the Coral Springs Basketball Club. For her efforts, a court in Mullins Park was named after her. She is survived by her husband, **William E. Finney** '56; a daughter; two sons; a brother; eight grandchildren; and two great-grandchildren.

John C. McLaulin Jr. '56 of Elizabeth City, N.C., on Jan. 30, 2009. After serving in the Air Force, he became deputy superintendent of Norfolk city schools. He is survived by his wife, Evelyn;

Congratulations Coach K! 903 and Kounting



The University Club, a private fine dining club located in the penthouse suite of the University Tower, is offering **SPECIAL NON-MEMBER dining privileges** to Duke University students, parents and alumni. Perfect for a meal before the game.

*Football & Basketball Home Games
Alumni Reunion Weekend
Graduation Weekend*

Call Jessica Santel at 919.323.4815 to reserve your stunning window table with panoramic views of campus! Advance reservations are available for the 2011-2012 academic year, so call ahead today!

University Club
3100 Tower Blvd., 17th floor
Durham, NC 27707
www.universityclubnc.com



club 919.493.8099
fax 919.294.9704
email us at:
info@universityclubnc.com

four daughters; two sons; 16 grandchildren; and three great-grandchildren.

Louis W. Armstrong '57 of High Point, N.C., on Aug. 23, 2011. He served in the Navy before attending Duke. He then began a career in banking, serving as city executive of Planters National Bank in Asheboro and then as founder and president of New Hanover Bank in Wilmington. He ended his career as CFO of Hughes Furniture Industries in Randleman, N.C. He was also a member of the N.C. Forestry Council and a volunteer admissions counselor for prospective Duke students. He is survived by his wife, Rachel; two children; a sister; a brother; and two grandchildren.

James L. Austin P.T. Cert. '57 of Winston-Salem, on July 14, 2011. He served in the Marine Corps for three years during the Korean War. He later began his own physical-therapy practice. He is survived by his wife, Betty Ann; two sons; a daughter; two sisters; and two grandsons.

Eleanor N. Cardwell '57 of Pensacola, Fla., on June 21, 2011. She is survived by a son, a daughter, a sister, and a granddaughter.

Rosser Lee Clapp M.Div. '57 of Burlington, N.C., on Sept. 17, 2011. He was called into the ministry at the age of 11 and served numerous churches throughout North Carolina and Virginia. He is survived by his wife, Doris; two sons; a sister; three grandchildren; and seven great-grandchildren.

James H. Gilbert Jr. '57 of Pilot Mountain, N.C., on June 26, 2011. He practiced law in Fort Lauderdale, Fla., before retiring. Survivors include his wife, **Virginia Jessup Gilbert** B.S.N. '57; two sons; a daughter; a sister; and six grandchildren.

Margaret Ruth Allen B.S.N. '58, M.S.N. '64 of Asheboro, N.C., on Aug. 2, 2011. She was an active member of the First Presbyterian Church and helped start the Stephen Ministry program in 1998. She also served on the Board of Education for Asheboro city schools and on the board of the local mental health center. She is survived by three children, a brother, a sister, seven grandchildren, and a great-grandson.

John A. Bullock Jr. '58 of Port St. Lucie, Fla., on Aug. 18, 2011. Survivors include three children.

James F. Harris '58 of Madison, Wis., on April 27, 2011. He is survived by his wife, **Marilyn Brower Harris** '57, and a daughter, **Melanie Jane Harris** '81.

Jeanne Gibson Woody '58, M.A.T. '60 of Danville, Va., on Aug. 26, 2011. She was a North Carolina state champion majorette in high school and played the lead in several musicals at Averett University. She is survived by five children and 12 grandchildren.

Chao-Wen Chin '59 of Port Washington, N.Y., on March 6, 2011. He is survived by his wife, Cecelia.

David T. Evans B.S.C.E. '59 of Miami, on June 10, 2011.

Georgia Farmer Starnes '59 of High Point, N.C., on Aug. 13, 2010. She was a member of the Salvation Army Women's Auxiliary. She is survived by her husband, **Walter B. Starnes** '59; a

daughter, **Ann Starnes Reece** '84; her mother; and two grandsons.

Dayle G. Groh M.Div. '60 of Charlotte, on Aug. 4, 2011. He served numerous churches in the Western North Carolina Conference for almost 40 years. Most recently, he served as pastor emeritus at the University City United Methodist Church in Charlotte. He is survived by his wife, Mary; a son; a daughter; and two grandsons.

Eugene P. Haag '60 of Coeur d'Alene, Idaho, on March 14, 2011.

Barbara Wilmer Gibson HS '61 of Shelburne, Vt., on Jan. 17, 2011. She was one of four women in a class of 80 at Harvard Medical School. She worked part time in children's clinics and at the Vermont Women's Health Center. She is survived by her husband, Thomas; two sons; three daughters; and six grandchildren.

William R. Jones HS '61, HS '65 of Ormond Beach, Fla., on July 17, 2011. He helped found Atlantic Urological Associates and served on the American Board of Urology. He was also the president of the Florida Urological Society and the Volusia County Medical Society. He is survived by his wife, Mary; two sons; a daughter; a sister; and two grandchildren.

William C. Sharp B.S.M.E. '61 of Bella Vista, Ark., on July 9, 2011. He was commissioned as a

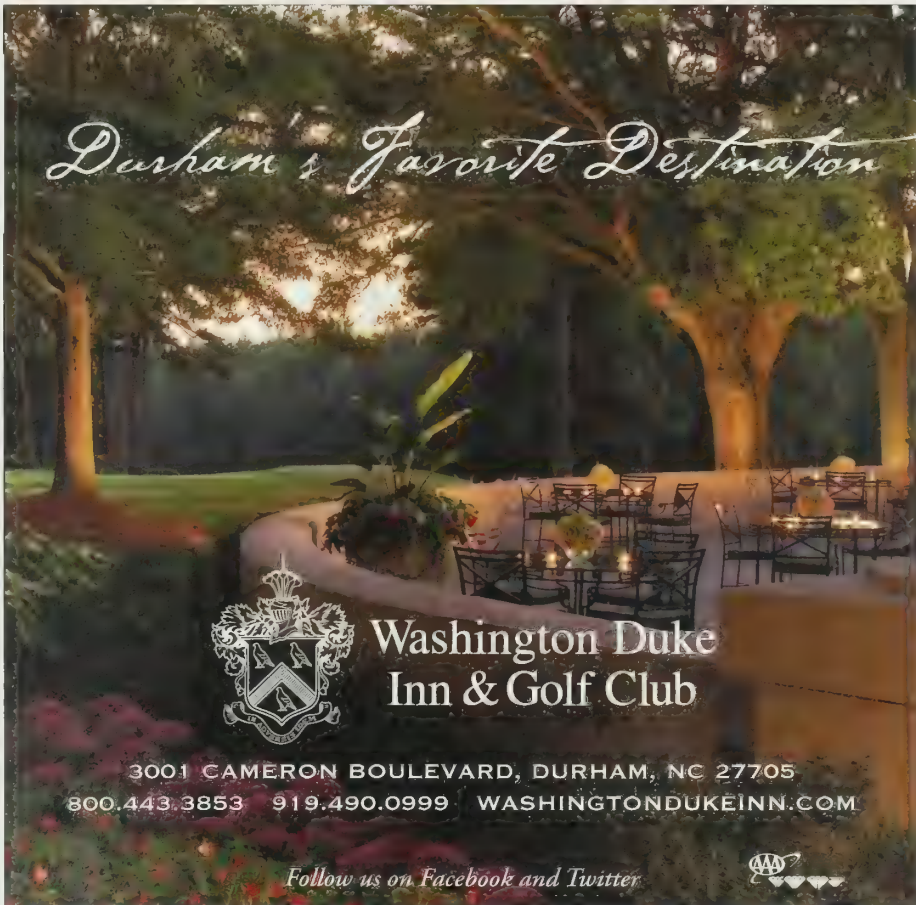
second lieutenant in the Marine Corps and was later employed in commercial construction as a mechanical engineer for 42 years. He was a lifetime member of the American Society of Heating, Refrigerating and Air-Conditioning Engineers. He is survived by his wife, Roberta; a son; a daughter; two brothers; a sister; and three grandchildren.

James M. Cosby M.Div. '62 of Powhatan, Va., on Nov. 15, 2010. Following his service in the Korean War, he became a United Methodist pastor in the Virginia Annual Conference, evangelizing for 42 years. He is survived by his wife, Clair; two daughters; a son; two sisters; and three grandchildren.

Basil M. Griffin Jr. '62 of Ponte Vedra Beach, Fla., on Aug. 25, 2011. He was commissioned as a major and orthopaedic surgeon in the Air Force. He practiced orthopaedic surgery in Atlanta before retiring to Florida. He is survived by his wife, Donna; a son; a daughter; his mother; and five grandchildren.

Charles D. Ham '63 of Fayetteville, Tenn., on Aug. 5, 2011. He served in the Air Force as an officer on the DEW line above the Arctic Circle and was a district sales manager for DuBoise Chemical Co. in Paducah, Ky. He is survived by a son, a daughter, two brothers, and two grandchildren.

David C. Parsons '63 of Altoona, Pa., on July 13, 2011. He served in the Navy aboard the USS



Durham's Favorite Destination

**Washington Duke
Inn & Golf Club**

3001 CAMERON BOULEVARD, DURHAM, NC 27705
800.443.3853 919.490.0999 WASHINGTONDUKEINN.COM

Follow us on Facebook and Twitter

Intrepid, which orchestrated the retrieval of the Gemini space capsule and crew during his service. He later worked in the family business, Parsons Agency Inc., as owner and a licensed insurance agent. He is survived by his wife, Nellimae; a son; a brother; a sister; and an aunt, **Frances Parsons Britsch** '46.

Angelo J. Villani Jr. '63 of Myrtle Beach, S.C., on July 12, 2011. He was a practicing ob-gyn in Myrtle Beach and Conway, S.C., for more than 30 years. He is survived by his wife, Peggy; a daughter, **Karen Villani Nye** A.H.C. '95, MS '95; a son; his mother; a brother; two sisters; and three grandchildren.

Anne Ramsay McPherson '64 of Mountain Brook, Ala., on Aug. 5, 2011. She was a high-school English teacher in southern California and later worked as a systems engineer for IBM in Atlanta. She is survived by her husband, Henry; four children; and six grandchildren.

Leslie Grey Harper '65 of Jersey City, N.J., on June 2, 2011.

David C. Hjelmfelt LL.B. '65 of Chicago, on Aug. 9, 2011. He specialized in antitrust law within public utilities and the oil and gas industries. He also taught business law to aspiring entrepreneurs in the former Soviet Union in the early 1990s. He is survived by his wife, Kendall; a son; a daughter; his mother; and two brothers.

Reid R. Rogers M.Ed. '65, of Raleigh, on Aug. 26, 2011. He was a teacher and coach in Knightdale, N.C. He is survived by five children, six grandchildren, and a great-grandchild.

Bruce P. Squires HS '65 of Ottawa, Ontario, on May 11, 2011. He was editor-in-chief of the *Canadian Medical Association Journal* and a member of the International Committee of Medical Journal Editors. He was also one of the founders for the World Association of Medical Editors, which now includes 1,664 members in 92 countries. He is survived by his wife, Patricia; a daughter; a son; two brothers; a sister; and three grandchildren.

Barbara Anna Burch '67 of Salem, S.C., on Jan. 8, 2011.

Lucile Carter Acton '69 of Lutherville, Md., on June 7, 2011. She was a writer and editor of the *Mid-Atlantic Thoroughbred* magazine and the Maryland Thoroughbred Horsemen's Association newsletter; she formerly wrote for the *Evening Sun*. She is survived by a son, a daughter, and two brothers.

James J. Nomina '69 of Charlotte, on Aug. 27, 2011. He spent his career in the commercial finance industry. He is survived by his wife, Jan; two daughters; and a sister.

Peter E. Nute Ph.D. '69 of Seattle, on April 14, 2011. Survivors include his wife, Marian; and a daughter.

Harry L. Wolf '69 of Reisterstown, Md., on July 25, 2011. He was a teacher in Buena Vista, Va., and owned the company Flip Side Records. He is survived by his wife, Cynthia; three daughters; and three grandchildren.

Ricardo A. Cordon HS '70 of Pittsfield, Mass., on Aug. 14, 2011. He worked as a pulmonologist

at Boston Medical Center, where he helped establish the critical-care unit. He is survived by his wife, Maggie; a son; a daughter; four siblings; and four grandchildren.

William R. Higgins Ph.D. '70 of Baltimore, on Dec. 27, 2009.

Henry F. Campbell Ph.D. '71 of North Wales, Pa., on June 19, 2011. He was a pharmaceutical research chemist for many years and later began a second career in the hospitality industry. He is survived by his wife, Suzanne; two daughters; a sister; and six grandchildren.

Craig S. Tymeson '71 of Arlington, Va., on Aug. 14, 2011. He worked for the State Department and retired in 2008. He is survived by his partner, Ellen Engels; his mother; and a sister.

Ernst D. Mueller J.D. '72 of Jacksonville, Fla., on July 18, 2011. He clerked for the U.S. District Court of Appeals and then served in the U.S. attorney's office in the U.S. District Court, Middle District of Florida as a trial lawyer for 20 years. He is survived by his wife, Nancy; three children; a sister; and a granddaughter.

Harold L. Spencer HS '72 of Greenville, Ky., on Dec. 4, 2010. He was an orthopaedic surgeon at Floyd Memorial Hospital. He is survived by his wife, Delores; four children; a sister; a brother; 12 grandchildren; and four great-grandchildren.

Gary C. Zigenfus MS '74 of Evansville, Ind., on July 8, 2011. He was a member of the American Physical Therapy Association and founded the physical-therapy program at Concentra, a healthcare provider, in 1992. He is survived by a son, two daughters, a brother, and three grandchildren.

Betty Pickell Cleaver Ed.D. '76 of Durham, on Aug. 8, 2011. She served as the director of the Instructional Media Center at the University of North Carolina School of Education. She later taught media courses at The Ohio State University. She is survived by six children, nine grandchildren, and a great-granddaughter.

Peter B. Bothel J.D. '77 of San Francisco, on June 20, 2011. He worked for Cassidy, Shinko, Dawson & Kawakami, a law firm that specializes in real-estate and environmental law.

Edmond C. Bloch HS '78 of Durham, on Sept. 4, 2011. He was a pediatric anaesthesiologist at Duke University Medical Center. He is survived by his wife, Eda; a daughter; a son; and five grandchildren.

Donald M. McIntosh II M.D. '78 of Gaffney, S.C., on July 11, 2011. He served on the staff of Upstate Carolina Medical Center for nearly 30 years and was affiliated with the Spartanburg Regional Healthcare System for the past 15 years. He is survived by his wife, Debra; three children; a sister; and two brothers.

Daniel D. Ristau M.H.A. '78 of Omaha, Neb., on July 26, 2010. He is survived by his wife, Cynthia; two sons; three brothers; and three sisters.

Roger M. Ballard A.H.C. '79 of Maiden, N.C., on June 24, 2010. He was senior vice president over purchasing for Sun Health. He is survived by his

wife, Sarah; two sons, a brother, and a granddaughter. **Michael W. Churm** '82 of Canton, N.C., on Aug. 21, 2011. He was a member of the Duke football team, where he played center and defensive end. He worked for UCB-Pharma, where he was named to the President's Club as a top representative five out of six years. He is survived by his wife, Dee; a son; a stepdaughter; his mother; two brothers; and two grandchildren.

Marjorie Lucille Meares '82 of Asheville, N.C., on Aug. 8, 2011. She was the executive director of the Clean Air Community Trust in Asheville (now Green Opportunities Asheville) and was appointed to the Community Energy Advisory Council and the Woodfin Water Board after working as a proponent of the Clean Smokestacks Act. She also worked with the N.C. Building Code Council to draft the N.C. 2012 Energy Conservation Code. She was ordained as a lay teacher in the Buddhist tradition. She is survived by her partner, Ruth Ostrenga.

William M. Belcher Jr. M.B.A. '83 of Bloomsburg, Pa., on Sept. 14, 2011. He was employed by Creative Enterprise, now known as the Market Street Group. He most recently worked for Keystone National High School. He is survived by his wife, Karen; his mother; a son; and a sister.

James W. Blackwood Jr. '84 of Conover, N.C., on July 30, 2011. He founded the Newton-Conover Young Republicans and was a member of the Newton-Conover Jaycees. He is survived by his wife, Kay; a daughter, **Elizabeth R. Blackwood** '14; and a sister.

Robert L. Massengill M.H.A. '84 of Charlotte, on Aug. 31, 2011. He was an officer in the Army and retired from the Army Reserve as a major. He worked for the Carolinas Healthcare System as assistant vice president of corporate medical records. He is survived by his wife, Susan; a son; a daughter; his parents; and a brother.

Gary C. Freeman '85 of San Francisco, on Dec. 26, 2010.

Andrew D. Reddick M.B.A. '85 of Merced, Calif., on April 28, 2011. He was the CEO of Acura Pharmaceuticals.

Jennifer Springer Dills '86 of Fairfax, Va., on July 6, 2011. She worked in publishing in New York before moving back to Durham to manage *The Chronicle*. She is survived by her husband, Chris; two daughters; a son; her mother; a sister, **Barbara Springer Edwards** B.S.N. '81; two brothers; and a brother-in-law, **Richard L. Edwards** '78.

William "Chris" Blossom III A.M. '89 of Wilmington, N.C., on July 2, 2011. He served in the Air Force for five years. Upon returning from Korea, he taught Russian at Syracuse University. He later became a member of the North Carolina Bar Association. He is survived by a son, a daughter, and four sisters.

Lynn Jones Ennis A.M. '89 of Raleigh, on July 26, 2011. She was associate director and curator of the collection at the Gregg Museum of Art & Design at North Carolina State University. In addition, she taught a business course in the

school's M.B.A. program. She is survived by her husband, Larry; a daughter; her mother; and two brothers.

Vance E. Watson HS '91 of Arlington, Va., on Sept. 11, 2011. He served as chief of neurointerventional radiology at Georgetown University Hospital and was an assistant professor there for 16 years. He is survived by two sons, his parents, and a brother.

Deborah Grindall McNeill M.Div. '95 of Richmond, Va., on May 4, 2011. She was a Methodist minister who served in various Virginia churches. She is survived by two sons, a brother, two sisters, and four grandchildren.

Edwin C. "Ted" Murphy III Ph.D. '97 of Durham, on Aug. 15, 2011. He was an expert in the pharmaceutical field and served as vice president of research and development at BioMarck. He also consulted with Liquidia Technologies. He is survived by his wife, Stacy; three children; his parents; a sister; and a brother.

Christine Susanne Dale M.S.N. '01 of Phoenix, on Aug. 31, 2011. She worked as a family urgent-care nurse practitioner, establishing and managing several rural clinics in Durham County. She is survived by her husband, Craig; her parents; and a brother.

Angela Callanan Joseph '02 of Durham, on Aug. 26, 2011. At Duke, she won the Barbara Herrnstein Smith Award for her work in literary criticism. She was an English teacher at Raleigh Charter High School. Survivors include her husband, James, and her parents.

University Registrar Cahow

Clark R. Cahow '50, B.Div. '53, Ph.D. '67 died on Dec. 14, 2011. He served as a second lieutenant in World War II, receiving several medals and commendations. After the war, he enrolled at Duke, eventually becoming associate registrar in 1960 and university registrar in 1969. A professor of history, Cahow held many roles at Duke, including director of admissions, vice provost for admissions and financial aid, and director of Canadian studies. He is survived by a daughter, a brother, two sisters, and a brother-in-law, and numerous nieces and nephews.

Mechanical Engineering Professor Harman

Charles M. Harman of New Bern, N.C., died on Aug. 7, 2011. He was a professor with the School of Engineering graduate program for 43 years, starting in 1961, and was the first faculty member in the Department of Mechanical Engineering to have a doctoral degree. He was a full-time faculty member for more than 100 semesters.

He was a veteran of the Navy and attended the University of Maryland, the University of North Dakota, and the University of Wisconsin, where he received his Ph.D. in mechanical engineering. He received a grant from President Lyndon Johnson to conduct special research in Duke Forest in the 1960s. He is survived by a daughter, two sons, and four grandchildren.

Development Officer Jackson

Myrna Ruth Kanner Jackson of Durham died on Nov. 6, 2011. She worked for many years in Duke's development office and retired as the director of development for Perkins Library. She is survived by her partner, Cheryl Thomas; a daughter, Laura Jackson M.E.M. '89; a sister; and two nephews.

classifieds

ACCOMMODATIONS

Paris: Marais. Luxury rental in center of Paris. Close proximity Picasso Museum, Centre Pompidou and other historical sites as well as gourmet shots of Rue de Betagne. See owner's website at www.parischapon.com

Tuscany: Castle: Spend a week in fabulously restored 11th century castle. Sleeps 8. www.castellodiporciano.com Betsy Conti 919-961-5565 betsy@thecontigroupllc.com

Lovely 4BR/2BA home. Minutes to Duke in Watts/Hillandale. Updated, brick ranch, large manicured corner lot, neighboring Hillandale Golf Course. Perfect for Duke families, grad students. Priced under market at \$199,900. Contact Derek Magum, realtor (919.819.9223) or owner (602.481.7695).



Spend your next vacation in the Cotwolds! Perfect for families, The Old Rectory can accommodate a maximum of twelve people. **Visit our site on VRBO UK Listing Number 344125 for more information.** As an alum ('82), it would be great to share our home with other Blue Devils!

PARIS, SW FRANCE, PROVENCE, ITALY. Comfortable apartments, homes, chateaux. www.FrenchHomeRentals.com 503-219-9190

ST. MAARTEN: Gorgeous beaches, shopping, dining in the "Culinary Capitol of the Caribbean." Duke Alum family home, 4 bedrooms sleep one couple to eight people. View of St. Barth's. See photos, rates: www.villaplateau.com. Mention Duke for discount.

MISCELLANEOUS

www.DukeCheck.com "...an increasingly popular blog that focuses on the governance of Duke and that scandals that occur on the University's campus" – Chronicle 10/25/2011

Your Manager in Germany! Duke MBA; Held senior executive positions in manufacturing and distribution; Currently managing a company in the Southeastern part of the US; Dual Citizenship (USA, German Native); Looking for a new opportunity in Germany; Reply to Germany8453@aol.com

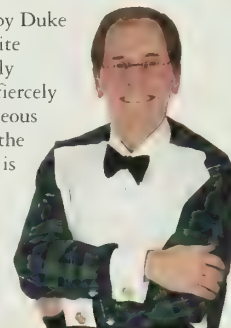
Date Smart

Meet other smart singles from outstanding schools. Join the Right Stuff, the "go to" site for Ivy League dating...All ages. www.rightstuffdating.com 800-988-5288

The Right Stuff

You Handsome Devil!

Men's formalwear reformed by Duke grads! The RedHeads exquisite evening shirts appear perfectly proper under a tux coat, yet fiercely festive with jackets off! Gorgeous American made shirts make the perfect gift for any man who is comfortable in a tuxedo, but is no stuffed shirt! Also, TrueBlue Cumberbund sets & custom color weddingPARTY shirts! www.ThRedHeads.com



CLASSIFIED ADVERTISING

Get in touch with 100,000+ potential buyers, renters, and consumers through *Duke Magazine Classifieds*.

Rates: \$3.00 per word, minimum \$30

Additional fees:

- Special typeface treatment (bold, larger font size, etc.): \$10.00 per ad
- Electronically submitted logo or art: \$20.00 per ad

Requirements: All classified ads must be typed or printed legibly with the following information: name, billing address, phone number, e-mail address, ad text, ad section (For Sale, etc.), and the number of issues in which the ad will run. A form for ad submission is available on the advertising section of www.dukemagazine.duke.edu or by e-mailing dukemag@duke.edu.

Payment: All ads must be prepaid. Accepted

payment forms: check, Visa, and MasterCard. No orders taken over the phone, except by fax.

Send completed form with payment or payment information to: Duke Magazine Classifieds, Box 90572, Durham, N.C. 27708.

Deadlines:

May-June 2012 issue: March 1, 2012
July-August 2012 issue: May 1, 2012
September-October 2012 issue: July 2, 2012
November-December 2012 issue: September 1, 2012
January-February 2013 issue: November 1, 2012
March-April 2013 issue: January 2, 2013

For more information about *Duke Magazine Classifieds*, please contact (919) 684-2875 or dukemag@duke.edu.

Extra Credit

With its new WeCar, Duke's gone electric. The campus car-sharing program, which allows students and employees to rent cars for short stints, now includes a fleet of four all-electric Chevrolet Volts.

With only a few minutes of downtime, a Volt can be recharged in less than an hour. The WeCar program is currently available to the university's employees and students, but will be open to the public soon.

About 500 students and employees have signed up for WeCar. Volts cost around \$9 per hour with lower rates for overnight or daylong rentals. The program also offers traditional sedans, SUVs, and seven-passenger vans.

The Volt can run on its battery for about forty miles before switching to gas. As with many hybrid vehicles, braking regenerates battery power. All told, you could drive 400 miles without needing to stop for gas or a charge.

It takes about four hours to charge the Volt's 120-volt electric engine. The four campus charging stations have lights on top to indicate a car's charge level. Yellow means it's still charging; green means it's ready to go.

To encourage use of the program, WeCars get choice reserved parking spaces. There are four spots reserved for WeCars behind the Evans Center, two in front of the chapel, and two near the hospital, among other campus locations.

Including car payments, gas, parking, and insurance, the cost of owning a car can run about \$370 a month, according to Duke's transportation office. For that, you can buy nearly fifty hours of drive time with a WeCar, more than most students drive in a month.

Duke Reunions

2012

April 20-22, 2012

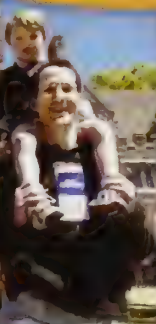
Reconnect with classmates and experience the best of Duke

Enjoy amazing parties, tours, speakers, and performances as you celebrate your Duke experience during Reunions Weekend. Bring your family, catch up with classmates, and take advantage of the many engaging activities we're preparing for you. Look for an update from your class soon and be ready to register in early March!

Your reunion begins online at:

www.DukeReunions.com

Duke
ALUMNI ASSOCIATION



CLASSES

1952, 1957, 1962, 1967, 1972, 1977,
1982, 1987, 1992, 1997, 2002, 2007
and the **Half Century Club**

Start making your plans **ONLINE** now.

You'll want to see what everyone has been doing lately, and share your own news.

Don't forget to add your name to the list of classmates planning to attend!

www.DukeReunions.com



Duke Alumni Association

Reunions Office • Box 90572 • Durham, NC 27708-0572
www.DukeReunions.com

DUKE

DUKE UNIVERSITY, BOX 90572
DURHAM, NORTH CAROLINA 27708-0572

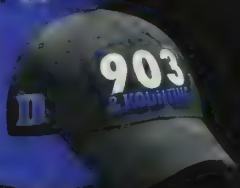
NONPROFIT ORG.
U.S. Postage
PAID
PPCO

C-00
PERIODICALS
PERKINS LIBRARY
BOX 90180

60

Coach K

College Basketball's All-Time Winningest Coach



**We are your place for
officially licensed Duke merchandise.**

With over 12,000 products to choose from, we offer the largest selection
of *everything Duke*. Shop with us 24/7/365 via our online catalog and place
your order securely anytime, day or night.

You'll see why this is where real Duke fans shop!

We are a proud supporter of Duke Athletics.

Browse our online catalog @
www.shopdukestores.duke.edu

016 West Union Building | Box 90850
Durham, NC 27708-0850

One Team. One Common Goal.
To provide quality service & products to the Duke University Community.



Running Blind

| A Note on Bird Songs

| Why It's So Hard to Get into Duke

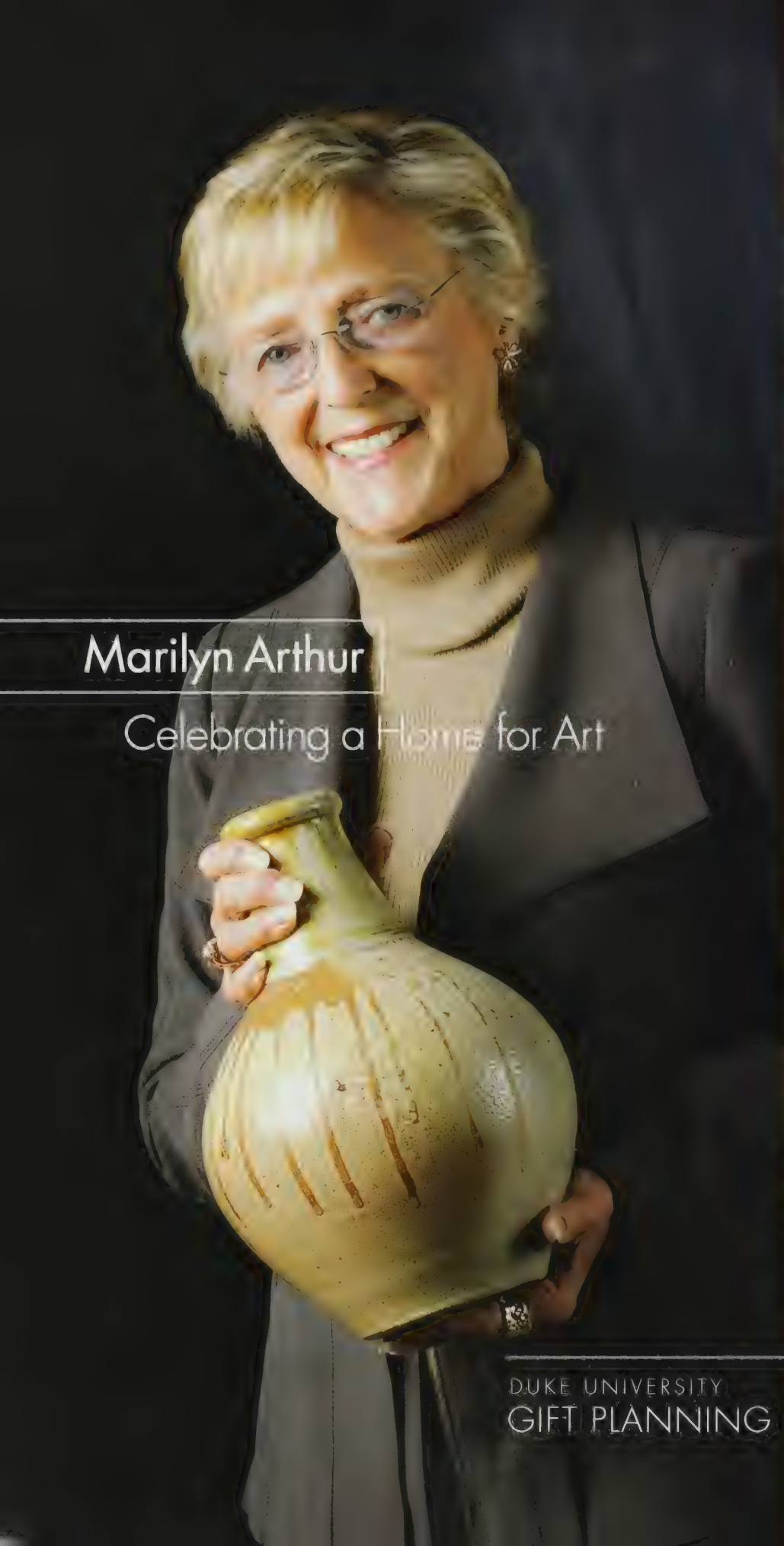
DUKE

MARCH-APRIL 2012

MAGAZINE

Bull Rising

Durham's journey from hard times to hip



Marilyn Arthur

Celebrating a Home for Art

As an undergraduate studying studio art and art history, Marilyn Arthur '66 helped organize one of Duke's first campus art shows, displaying art in whatever free space could be found. Duke's Woman's College had a very strong art history program, it did not have an art museum or other designated gallery spaces.

Since that time, Marilyn has seen the 1966 opening of the Duke University Museum of Art in a former science building, and in 2005, the opening of the Nasher Museum of Art. Marilyn remembers the museum's planning committee expecting about 200 students on the Nasher's opening night. The group was delighted when more than 1,300 showed up.

"The Nasher is a leader among university museums today because it presents contemporary art," said Marilyn. "There is really no other place like it."

A former art teacher, collector of North Carolina pottery, and jewelry designer, Marilyn has served on many of the Nasher Museum's volunteer boards, including the President's Committee, Friends Board, and Nasher Museum Development Committee. In 2009, she was presented the Charles A. Dukes Award for her distinctive volunteer work with the university.

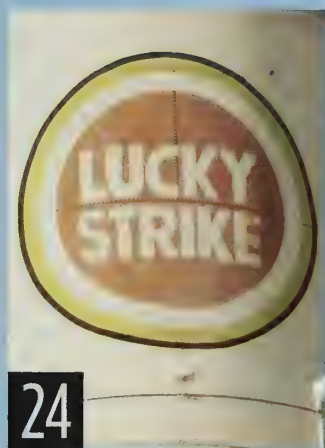
Marilyn's love of Duke and passion for art led her to establish a bequest creating the Marilyn M. Arthur Endowment for the Nasher Museum of Art. This permanent, unrestricted endowment for the museum will help the Nasher continue to engage Duke students. "I'm so grateful to the museum's namesake, Ray Nasher, and I'm proud to be a museum supporter, too," she said.

To explore ways a deferred gift can support a Duke program or organization that is meaningful to you, visit www.giving.duke.edu/giftplanning or contact:

DUKE UNIVERSITY
GIFT PLANNING

Duke University Office of Gift Planning
Box 90600
Durham, North Carolina 27708
Phone (919) 681-0464
Fax (919) 684-9731
Email gift.planning@dev.duke.edu

FEATURES



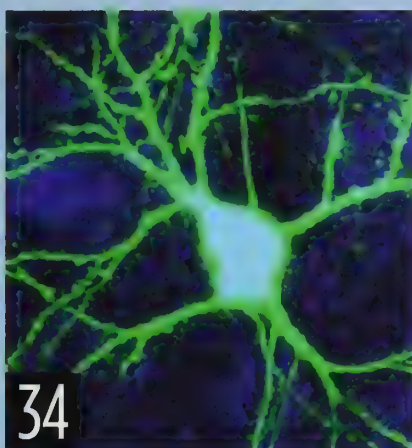
24

COVER

Bull Rising

By Eric Ferreri

A decade of redevelopment has breathed life into downtown Durham. But the city's remarkable turnaround is about more than bricks and mortar.



34

Bird-Brained

By Ashley Yeager

A sparrow's song may seem a simple melody, but it's actually the product of some pretty sophisticated brainwork. In fact, studying how birds sing may give us new insights about our own ability to speak, move, and think.



40

Admission: Impossible?

By Robert J. Bliwise

Not quite—but in today's hypercompetitive environment, it takes something special to stand out from the crowd.

DEPARTMENTS

2 **QUADQUOTES**

4 **FORUM**

8 **Gazette**

Campus, Arts, Research

18 **SPORTS**

Golfer's life on course

20 **Q&A**

Appreciating Canada, friend and sometimes neglected neighbor

22 **OBSERVER**

Running blind in Duke Forest



46 **BOOKS**

Is America getting its money's worth from higher education?

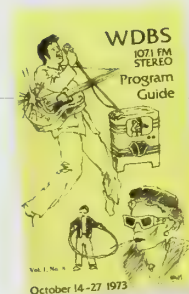
49 **AlumniRegister**

DAA activities, class updates, mini-profiles

71 **CLASSIFIEDS**

72 **EXTRACREDIT**

Gems of the Sarah P. Duke Gardens



BETWEEN THE LINES

Back in 1983, I had a lunch interview for my Duke-position-to-be at Bullock's Bar-B-Que. As a lifetime Northerner naïve in the delectable ways of the South, I was confronted with my very first plate of barbecue and presweetened iced tea (into which I nimbly but unknowingly poured a packet of sugar).

The culinary scene has changed in Durham, which is one of the themes feeding our cover story. That scene has been documented over the years by *The New York Times*—whose reporters apparently love to eat. In 1993, for example, the *Times* mused about Brunswick stew in Durham; the stew was “spicy, sweet, and assertive,” though it was “not so cooked down that corn, beans, and potatoes were not identifiable.”

Eight years later, the paper celebrated a recent Duke graduate who began his burrito empire in Durham and had just expanded into New York's East Village. The reporter said the burrito wasn't his cup of (presweetened) tea—he compared it to a “blimp” manufactured from a giant flour tortilla—but he acknowledged its appeal to the masses.

By 2002, the *Times* was celebrating Durham's Magnolia Grill as “a sophisticated place,” with a setting reminiscent of “an upscale roadhouse” and such offerings as “grilled yellow tuna in a sauce made with smoked ham hocks, red wine, and homemade barbecue sauce.” In the same column, it made mention of Fishmonger's, “a gritty old bar” that is fine for “a quick, if caloric, lunch,” and Pop's, “a pleasing Italian restaurant” in a renovated warehouse. Five years later, the paper's “Escapes” column highlighted Foster's, praising its “giant peanut butter cookies.”

The local food-trucks movement caught the paper's attention in 2010; it called Durham's OnlyBurger the leader of this “vehicular pack.” And just last year, the *Times* took a walk through downtown Durham—an “exciting” and “unexpected” food hub, with such worthy destinations as Scratch bakery, Toast, Rue Cler, and Revolution, the latter striking a “cool note.”

A revolution indeed—Durham has turned cool, by culinary and other standards.

—Robert J. Bliwise, editor

QUOTES

“I could have taken it easy on my day off, but I wanted to do something to help, to honor Dr. King.”



Adam Schwartz '14, left, Durham resident Claire Wilcox, and Myles DePass '14, package meals during the MLK Million Meals event.

—Nicole Rothfusz B.S.M.E. '11, on joining more than 300 volunteers at the Freeman Center for Jewish Life to package 80,000 meals at the Stop Hunger Now's sixth annual MLK Million Meals Project (*The Herald-Sun*)

“By sticking their hands in the dirt, eating what they or a neighbor planted, they are turning a network of ignorance—the anonymous, placeless food of industrial agriculture, with all its invisible polluting side effects—into a circuit of knowledge: Here I planted it, here it grew, and here it will turn back into soil when it's done.”

—Jedediah Purdy, professor of law, on the relationship between the local-food movement and climate change (*The Huffington Post*)

“Especially in future periods of uncertainty and threat, a political society that sustains itself through an embrace of martial valor will seek to discipline itself in ways more in keeping with war than democratic ideals.”

—Howard Rhodes J.D. '14, responding to President Obama's State of the Union address in *Religion & Ethics NewsWeekly*

“We are currently lobbying our administration to enact an investment resolution to encourage leaders like you to stand up for peace in Congo, and we can guarantee that there is a strong constituency here at Duke that wants to buy conflict-free products from Apple.”

—Stefani Jones '14 and Sanjay Kishore '13 in an open letter to Apple CEO Tim Cook M.B.A. '88, urging his company to stop using minerals from the Democratic Republic of the Congo

“I would guess some senior Democratic people strongly suggested she spend more time with her grandchildren.”

—Michael Munger, professor of political science, on North Carolina Gov. Bev Perdue's decision to drop her re-election campaign (*The New York Times*)

“Raising the compulsory attendance age from sixteen to eighteen will not alone raise high school graduation rates. The focus needs to be on continuing to strengthen practices, programs, and policies that help students be successful in school, graduate, and be successful in life and work.”

—Ann Brewster, research scholar in Duke's Program in Education (*Duke Today*)

“It's kind of remarkable under current law that an extremely wealthy couple like the Romneys don't have to do anything very aggressive at all in order to get their average tax rate down to around 15 percent.”

—Lawrence Zelenak, law professor, on the tools available to capitalize on lower tax rates (NPR)

“I have to be HONEST, that comeback might beat my team's Miracle Minute.”

—Former Duke star Jay Williams '03, on Twitter (@RealJayWilliams), following Duke's 85-84 win over UNC on Feb. 8



DUKE VIEW

Battle bots: Engineering students test their team-designed robots to see how well they perform on a variety of tasks—including navigation, light detection, and object avoidance—as part of an annual design challenge.

Les Todd

"This Washington Monument is probably one of the most recognizable buildings in the U.S. next to the Capitol and the Empire State Building. It could use a little repair work, and I wanted people to get to see it as soon as possible."

—**David Rubenstein** '70, trustee, on his recent \$7.5 million pledge to help restore the monument damaged during last summer's earthquake (*USA Today*)

"They need to keep in mind there is no magic bell that goes off just because you graduated. It is far more important to find a good job—and a good job that is right for you—than to say, 'I have a job,' and then, in three or six months, be looking to make another transition because it was a bad fit or you got laid off."

—**Sheryle Dirks**, associate dean for career management at the Fuqua School of Business (*Businessweek*)

"Don Cornelius was a groundbreaking visionary who understood the power of black youth culture, particularly in social dance, and the hunger and excitement that mainstream America had for black culture during the civil rights movement."

—**Mark Anthony Neal**, professor of African & African American studies, on the death of *Soul Train* creator and host Don Cornelius (*Duke Today*)

"The nation doesn't need a military that can only do one thing at a time. The nation needs a military that can do multiple things."

—**Gen. Martin Dempsey** A.M. '84, chairman of the Joint Chiefs of Staff, in a speech in Page Auditorium

"They could have fed us a steady diet of pain and woe. Instead, they gave us ambition. When you want your children to

soar, you don't put boulders in their pockets."

—NPR's **Michele Norris**, on understanding her family's history and strength, during the annual Jean Fox O'Barr Distinguished Lecture in Reynolds Auditorium

"America is now more racially integrated than any time in the past century. There's been black suburbanization and the elimination of lily-white neighborhoods."

—**Jacob Vigdor**, professor of public policy and economics, in *USA Today*

"When you read it, you felt like you were king of the world. I don't care if every newspaper in North Carolina was cussing you; Mary said you were doing good. And you went out and did more."

—Former North Carolina Gov. **Jim Hunt**, on receiving handwritten letters from Mary Duke Biddle Trent Semans '39, Hon. '83, in remarks at the Duke Chapel memorial celebration of her life

DUKE

MAGAZINE

March-April 2012 | Vol. 98 | No. 2

EDITOR:

MANAGING EDITOR:

ASSOCIATE EDITOR:

CLAY FELKER MAGAZINE FELLOW:

PUBLISHER:

STUDENT INTERNS:

DESIGN CONSULTANT:

PRINTER:

OFFICERS, DUKE ALUMNI ASSOCIATION:

EDITORIAL ADVISORY BOARD:

DUKE MAGAZINE

PHONE:

FAX:

E-MAIL:

ADDRESS CHANGES:



FORUM

Lab Rats Deserve More Cheese

As a medical student in Phillip Handler's biochemistry class (1952-53), I received \$5 an hour as a lab rat undergoing a high-tech gastric secretion study requiring me to swallow a stomach tube for a lengthy period of time. A 1952 dollar is equivalent to a little over \$8 in today's buying power. Today's dollar would be worth about twelve cents in 1953. Lab rats at Duke [Observer, September-October 2011] are getting ripped off!

*Robert Mayo Failing M.D. '56
Santa Barbara, California*

Brooms Up

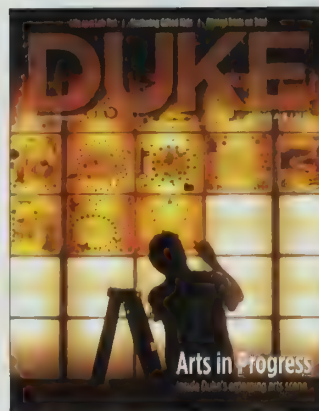
Without a doubt, the photograph you included [Observer, November-December 2011] of the subject article is the most humorous I've seen in *Duke Magazine*. To see eight young men grasping several inches of hardwood at their pelvis while pursuing one lone woman defies any rational caption, let alone "Duke players vie to regain possession of the quaffle..." Really? How did this escape your editorial staff? I'm just hoping they're as dementedly amused as I, and not simply asleep as the wheel.

If the former, I say bravo. If the latter, I say thanks for the most memorable photo printed in the thirty years of my reading the magazine.

*Jack Roche B.S.M.E. '82
Severna Park, Maryland*

Duke, Occupied?

I am very concerned for, confused by, and angry with the



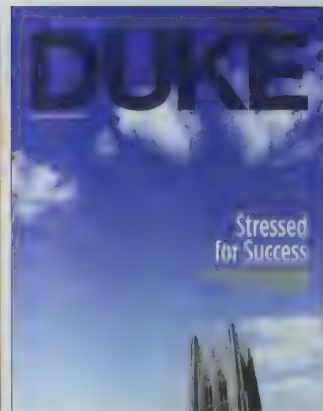
students (few, though they were) who took part in "Duke Occupied" [Gazette, November-December 2011]. How is it that they are at one of the best educational institutions in the world, with the opportunity to travel their own country and the world to study, and are protesting the wealth gap in the U.S.? If they are truly concerned about such a thing, why are they wasting their parents' money or scholarship privileges living in such a manner?

This makes a mockery of the true occupiers and is a waste of Duke's time as a university that has the mission of educating those who accept enrollment. If [they] cannot find, or have not found, where substantive conversation and debate exists on campus about any topic, then they have failed Duke.

*Carol W. Waldenburg,
M.Div. '98
Palm Beach Gardens, Florida*

Fracking, Continued

Mr. McClendon is correct in his last paragraph [Forum, November-December 2011]. "The relentless and ongoing politicization of education, teaching, and research at Duke is sad and lessens...relevance and value for all Duke alumni—past,



present, and future."

The response from [the Nicholas School professors] is weak, at best. No matter that one meets high standards: If one's fundamental research is flawed, one needs to retract and start over, maybe by checking out conditions before one started.

Duke will, unfortunately, continue to decline in real relevance as a consequence of focus on small, inward-looking, correctness, as opposed to the vision of a universe that offers endless sweeping opportunity for humanity. Too bad.

*Jim Eagle '55
Yorktown, Virginia*

I live next door to Weld County, Colorado, which hosts some 18,000 oil and gas wells, more than nearly any other county in the nation. While I welcome the economic boost the natural-gas industry has provided to my state, I am disappointed by the lack of federal guidelines and standards for the air, water, and land impacts of natural gas extraction and hydraulic fracturing (fracking). With the release of the Osborn et al. (2011) study linking elevated levels of shale-derived methane in shallow drinking water wells near active fracking sites, Duke researchers have added a small but important data

point to the political-scientific debate regarding the environmental and public-health risks posed by this method of fossil fuel extraction.

Mr. McClendon of Chesapeake Energy wrote to address the findings of this study, claiming that the authors must have an agenda against his industry. It is clear from Mr. McClendon's letter that he has an agenda to marginalize any attempt of objective assessment of the potential impacts of fracking. Our nation's environmental laws are largely reactive, not proactive; therefore resources must be allocated to study and monitor this novel (at its current scale and intensity) process. To date, federal studies, though in the works, are woefully absent. Independent, non-energy industry funded studies such as this are vital to inform the public and policymakers.

Mr. McClendon should welcome such research, which can guide the U.S. in growing its domestic energy production in an informed and sustainable way so that in the next few generations, when most of these wells become unproductive, there will still be clean air, water, and land for us all.

*Joel Sholtes '04
Fort Collins, Colorado*



Do these self-pitying students, the rarified few who have been permitted to come to Duke, expect us to feel sorry for them?"

—MARGARET KNIGHTS HULTSCH

War & Roses

Since I graduated from Duke in 1939, I experienced the fall of 1938, when Duke's football team won every week ["War and Roses, November-December 2011]. I was taking a law course on West Campus when our professor told us we would not have a class on Saturday if our football team won. (Classes were Tuesday, Thursday, and Saturday.) We had a gleeful fall with no Saturday classes. Coach Wade was great, and we went to the Rose Bowl. I was there and will never forget our joy.

*Elizabeth Allin Clarke '39
Lake Forest, Illinois*

The 1942 Rose Bowl that was played in Durham was indeed a historic event. I know from firsthand knowledge as recounted by my mother, Antoinette Salley Burdett '44. In the fall of 1941, she and a classmate became the first female cheerleaders at Duke. This milestone was so controversial that its acceptance required a vote by the entire student body. She cheered at

that Rose Bowl and told of the excitement, bad weather, and disappointing loss. Her story has been briefly recounted in a mini-profile [in] *Duke Magazine* [January-February 2001].

She passed away in 2008 and left us her coveted letter sweater—the first varsity letter issued to a female at Duke. I'm pleased to say that my mother's sweater is now included in the Duke Sports Hall of Fame.

*William M. Burdett '73
Tuxedo, North Carolina*

.....

Stress Over 'Stressed for Success'

I read "Stressed for Success" [November-December 2011] and thought how little has changed since I graduated from Duke almost thirty years ago.

When I was a sophomore, I saw a flier for a workshop called "How to Keep Perfectionism From Ruining Your Life." At first I thought I would attend. But then I thought, "No, that's not me. If I were a perfectionist, I'd have better grades and more

friends, I'd be prettier, have a boyfriend, exercise regularly...clearly, that seminar is not intended for me." So I didn't go. It wasn't until later that I realized the irony—that I thought I wasn't good enough to be a perfectionist at Duke.

*Valerie Schwam Rind '83
Ashburn, Virginia*

I'm getting sick of it! Everyone a victim! Now it is a curse to attend one of the nation's foremost universities? Do these self-pitying students, the rarified few who have been permitted to come to Duke, expect us to feel sorry for them? When there are people with real troubles out there?

If these kids can't set realistic goals for themselves and manage Duke, then let them drop out and attend community college. Then what will the sniveling be?

I know that victimization is the fashion now, but does *Duke Magazine* have to succumb to this trend? So trite.

*Margaret Knights Hultsch '54
Columbia, Missouri*

CORRECTION

In the January/February issue, a map of new housing assignments ["Model House," p. 34] incorrectly labeled the types of housing. The correct legend is reprinted here.



SELECTIVE LIVING



LIVING/LEARNING



FRATERNITY/SORORITY



Small: < 28 students



Medium: 29-38 students



Large: 39-47 students



Extra Large: 48+students

Send letters to: Box 90572, Durham, N.C. 27708 or e-mail dukemag@duke.edu. Please limit letters to 300 words and include your full name, address, and class year or Duke affiliation. We reserve the right to edit for length and clarity. Owing to space constraints, we are unable to print all letters received. For additional letters: www.dukemagazine.duke.edu.

FULLFRAME

Art, Inside Out: The Nasher Museum became the canvas for *A China of Many Senses*, a film by Duke professors William Seaman and Todd Berreth, which launched the start of the 2012 CHAT Festival, a biennial celebration of technology, arts, and the humanities. *Photo by Megan Morr.*



CHAT FESTIVAL 2012



Gazette

CAMPUS | ARTS | RESEARCH

A Place to Heal

New Cancer Center emphasizes a human touch.

It won't surprise anyone that the new Duke Cancer Center contains the most advanced technology around for diagnosing and treating cancer. Some of the stand-out features of the \$235 million facility, however, are decidedly low-tech. The center includes a meditation room, a shop for fitting wigs and turbans, a vast resource center to aid patients' research, and a rooftop garden where patients can receive chemotherapy treatments—just a few of the elements designed to cater to cancer patients' comfort and personal reflection.

The seven-story building, located on Duke Medicine Circle, will bring together services that had been scattered among several clinics, including imaging, mammogra-



Holistic approach: Rooftop garden where chemotherapy patients can receive treatment

phy, radiation oncology, pharmacy, and support services. It officially opened to patients at the end of February.

Dempsey's Duke

General returns to campus to discuss the future of the military—and a little William Blake.

On his first day at Duke, Gen. Martin E. Dempsey A.M. '84 was mistaken for a priest. Given that he was recently named chairman of the Joint Chiefs of Staff—and wears a chest full of medals for his military service—it's a mistake not likely to happen again.

But as the highest-ranking military commander in the nation, Dempsey is cut from a different cloth. At Duke, he studied English, and he counts poets William Blake and W.B. Yeats as important influences in his preparation for military leadership. He also possesses a wry sense of humor, which he wielded during a return in January to his alma mater.

"People say, 'How do you like [being the

new chair]?' " he told an audience in Page Auditorium, "and I say, 'It's good. I have my own jet.' "

Dempsey, formerly chief of staff and commanding general of the U.S. Army, was named chairman of the Joint Chiefs in October, and he now serves as the principal military adviser to the president and the Homeland Security Council. He leads the military during a significant time of transition, including the repeal of "Don't Ask, Don't Tell," the planned withdrawal of troops from Afghanistan, and regime change

in the Middle East and North Korea. One week before he spoke at Duke, President Obama announced a proposed \$450 billion cut to military funding and called for a shift

in military strategy.

Dempsey spent some time discussing the new direction for a leaner military. But he also reached out to the students in the audience, confessing to his own less-than-stellar essays and reminiscing about attending basketball games and celebrating victories at campus hangouts like Shooters. He then recalled an essay on Blake, which prompted him to reflect on both the effort and outcome of his work.

"At the end of the day, you've got to deliver," he said. "You've got to produce. You've got to achieve the outcome that is necessary, or you don't succeed."

Dempsey finished his speech by imploring students to pursue lasting meaning and value in their lives. "The greatest value in your life is to spend it through something that lives after it," he said, quoting the late U.S. Army four-star Gen. Donn Starry. "Remember this: In many ways it's a far higher ideal to live an ordinary life in an extraordinary way."



High standards: Chairman of the Joint Chiefs of Staff Martin Dempsey tells students to seek meaning in their lives.

Duke's twenty-eight buses now have **GPS systems that provide real-time data** on their locations, which riders can access on phones and other mobile devices. The system even sends alerts about delays and service changes.



Zakaria to Speak at Commencement

Journalist and five others will receive honorary degrees.

Noted journalist Fareed Zakaria will deliver Duke's commencement address during graduation ceremonies on May 13. Zakaria, an editor-at-large for *Time* and columnist for the *Washington Post*, hosts *Fareed Zakaria GPS*, a news program on international and domestic affairs, on CNN.

In addition to Zakaria, five others will receive honorary degrees

at commencement. They are business and philanthropic leader James Barksdale; Ambassador Nancy Brinker, founder and CEO of Susan G. Komen for the Cure; twelve-time Grammy Award-winning singer-songwriter Emmylou Harris; Darryl Hunt, an exonerated former inmate and advocate against wrongful convictions; and Nobel Prize-winning physicist Robert Richardson.

BY THE NUMBERS

Duke Barber Shop

Now celebrating its 100th anniversary, the Duke Barber Shop has seen Duke—and hairstyles—change with the times. Its close-knit staff offers an authentic barbershop experience, cutting hair without cutting corners.

6 Number of barbers and hairdressers

182.5 Cumulative years current staff has cut hair at Duke

\$18 Cost of a man's haircut

\$28 Cost of a woman's haircut

\$.25 Cost of a man's haircut when the shop opened in 1912

8,152 Total haircuts given in 2011

37 Pairs of scissors in the shop

\$300 Cost of most expensive pair of scissors

13 Gallons of hair swept up in an average week

350,000 Approximate number of haircuts given by manager David Fowler, now in his fifty-fourth year at the shop

1969 Year David Fowler temporarily left the shop because the popularity of long hair eroded business



A little off the top: From conservative buzz cuts to shaggier styles, the campus barbershop—still located in the West Union building basement—has accommodated changing hair trends.

—Dan Altman

A Major Issue?

Study of GPA raises concerns among some students.

A silent protest by around forty students on Martin Luther King Jr. Day turned a spotlight on an unpublished academic study, underscoring the delicate contours of discussions involving race at the university.

The protesting students objected to a research article titled "What Happens After Enrollment? An Analysis of the Time Path of Racial Differences in GPA and Major Choice." The study, based on surveys with 1,500 Duke undergraduate students, found that black students, as well as children of alumni, were more likely to switch from majors in "the natural sciences, engineering, and economics to majors in the humanities and social sciences." The authors cited the disparity as one reason why the gap between average GPAs for black

and white students narrows from freshman to senior year.

Saying the paper implied that black students are more likely than white students to seek out less-challenging majors, Duke's Black Student Alliance released a letter labeling the study "hurtful and alienating" and arguing that the study ignored "societal, complex, and institutional factors" that may influence students' choice of major and GPA. Members of the BSA met with senior administration officials, including President Richard H. Brodhead, to discuss the study and other concerns.

The paper's lead author, Duke economics professor Peter Arcidiacono, says the study has been misinterpreted, noting that when students' academic preparation—based on standardized test scores,

high-school grades, and parental income and education—is accounted for, no racial disparity in major-switching exists.

In a letter to the Duke community, President Brodhead acknowledged that "the conclusions of the...paper can be interpreted in ways that reinforce negative stereotypes," that the issues raised by the students are important, and that "we share a collective commitment to finding new paths to action."

A few students took issue with another aspect of the study: the authors' claim that the natural sciences, engineering, and economics are more difficult and have tougher grading standards than subjects in the humanities and social sciences. As one student at the protest asked, "Where are the easy majors at Duke?"

STUDENT SNAPSHOT

Andrew Leon Hanna '14, bridging the youth gap

For Andrew Leon Hanna, solidarity isn't just another buzzword; it's a generational imperative. In a closing ceremony at the 7th UNESCO

Youth Forum in Paris, Hanna and 210 other conference delegates became temporary flag bearers for a country not their own. For Hanna, who chose to carry the colors of Sierra Leone, the act was a

profound symbol of "how much of the same boat we're in," he recalls. "Beyond any difference, we're all people seeking the same things."

Over the three-day conference this past October, Hanna and some of the world's brightest youth deliberated on what exactly those things were, detailing their findings in a document that they

presented to the general body of the United Nations Educational, Scientific and Cultural Organization. Some of the recommendations included offering free, universal, and mandatory education to the secondary level; raising environmental awareness among youth; and creating an official International Convention on Youth Rights. Out of these and additional discussions on topics such as social justice and political activism, a consistent theme emerged: Youth can be agents of necessary change.

"The Arab Spring, the Occupy movements, these are all reinforcing the idea that young people are paying attention and coming together to try to change the way things work, from Tahrir Square to Wall Street," says Hanna, the sophomore class president and a Robertson Scholar. "And it's not naive to think that [at the forum] we were forging connections among future leaders of that change."

Hanna has long been advancing the idea of "youth empowerment," that is, young people connecting and collaborating on a local level. Last fall, he was responsible for organizing the inaugural Sophomore Convocation at Duke. The

event was an exercise in community building, intended to reverse some of the isolation that begins to take hold following freshman year. And while in high school, Hanna initiated a mentoring program called IGNITE, which was designed to help ease the first-year transition. The program paired freshmen with senior "big brothers and sisters" to ensure that "no student fell through the cracks," Hanna says. Building on IGNITE's success, Hanna received a \$1,000 grant from the N.C. State Institute for Emerging Issues to launch a similar program for Hillside High School in Durham next fall.

A first-generation Egyptian American, Hanna says that the UNESCO Youth Forum reinforced the importance of having an open mind and keeping a global perspective. One delegate in particular, a young man from Zambia, reminded him of this over lunch one day. The delegate's frustration with Africa being regarded as merely a charity case made a lasting impression on Hanna.

"This is our generation saying, 'We're inheriting this world—and we must have a say in what it looks like.'"

—Tim Lerow



Forward thinking: Hanna works to mobilize youth around pressing global concerns.



Spidey senses: Masked avengers and caped crusaders overtake Perkins Library for its annual party.

Gotham Gothic

The library's annual party turns super.

By day, it's a mild-mannered library, filled with studious but zombie-eyed denizens who prowl its stacks in strict silence. But on one night in late February, Perkins Library rolled out its secret identity.

Students, staff members, and professors—some in cocktail attire, many in superhero costumes—roamed the halls. Von der Heyden Pavilion became Gotham City, with cocktails and a professional jazz band. The library's Link transformed into an underground electronic music club, full of anime and Japanese pop art. And in the basement, forgotten comic books that never quite made it to *Superman* prominence lined the stately stacks.

Few events on campus embody Duke's "work hard, play hard" mantra quite like the annual Library Party. Though still a relatively new tradition, the event quickly has elevated the social clout of the library.

First conceived in 2007 to celebrate completion of the major stages of Perkins' renovations, the party began in the wake of the lacrosse scandal, when some national news media portrayed Duke as having a raucous party scene. Rachel Weeks '07, who spearheaded the inaugural party, says the organizers were frustrated with the image, and "we tried to promote real creativity with how Duke students socialized."

It was an unusual experiment—to see whether the campus community could party together in a library as robust as Duke's—that became an unexpected hit. "Never had I seen an event where all types of students and faculty were found in one place. Everyone was here, everyone had fun," says George Grody '81, professor of markets and management studies and faculty adviser for the Duke Marketing Club.

The Marketing Club has played a major role in planning the library party for the past two years. Like last year's "Mad Men and Women" party—which capitalized on the hit TV show and resources from the John W. Hartman Center for Sales, Advertising, and Marketing History—this year's "Heroes and Villains" theme meshed pop culture with library materials. Items from the Edwin and Terry Murray Comic Book Collection were on display for the event, which was promoted by comic-book-style fliers and the sale of BAM! and POW! cookies at the von der Heyden café. "Our goal was to make the party as grand as possible," explains junior Taylor Anne Potter, head of the party's student executive board.

It may turn out to be a grand exit. Construction of the David M. Rubenstein Rare Book & Manuscript Library, which begins this fall, may force the party on hiatus. But coordinators hope it will revive when the dust settles.

"I don't know any other university that would allow its library to get shut down for a night to allow for such a party," says Grody. "Once the renovation is finished, we really hope this can continue to be a Duke tradition."

Still Clucking

Duke's *Chanticleer* adapts in the age of Facebook.

What does a yearbook wish for on its hundredth birthday? Well, mostly just to keep on going.

In an era when many universities have cut their yearbooks or put them online, *The Chanticleer*—which celebrates its centennial anniversary this year—remains committed to its thick, glossy form. The small team of students and advisers who assemble the annual edition argue that the permanence of a printed book remains important, even—and perhaps especially—given the rise of social media sites like Facebook.

"Everyone has had personal photos, pretty much since *The Chanticleer* was invented. But this isn't a personal archive—this is your class experience," says Kristin Oakley '12, editor-in-chief of this year's book.

Creating that experience, however, has proved increasingly difficult. With many high schools abandoning yearbooks, fewer students come to Duke with experience assembling a book. Staff shortages have brought *The Chanticleer* close to disbanding in recent years.

Oakley is hoping alliances with the Duke Marketing Club and other student groups will help raise the profile of the yearbook among potential staffers and readers. The staff also worked with University Archives to post old yearbooks online.

"In the 1960s and '70s, the yearbook was text-heavy, like a manifesto. It speaks to the times," says Oakley (who is also an intern for *Duke Magazine*). Today, *The Chanticleer* includes experiences from study-abroad initiatives such as DukeEngage that highlight the evolving character of Duke and its students.

"There are people who wrongly think that yearbooks are a thing of the past," says staff adviser Brian Crews, of Student Affairs. "And I tell them, yes, they are a thing of the past—they are the history of your university told every year."



The Producer

Student Nathaniel Hill '12 weaves many artistic threads in *Ragtime*.

As a freshman member of Hoof 'n' Horn, Nathaniel Hill had a minor role in *Sweeney Todd*, the first collaboration between the musical group and the departments of music, dance, and theater studies in a decade. Smitten with the scope of talent around him, he imagined someday bringing a show of his own to the stage.

Hill went on to produce Hoof 'n' Horn's production of *Rent* in his second semester, but he still sought something more—something with the broad artistic sweep of *Sweeney Todd*. After a New York internship with award-winning producer and former Duke professor Manny Azenberg, he was encouraged to do what no Duke student had done before: take on a senior distinction project in producing.

The result of that project is *Ragtime*, a performance that will bring together students from dance, music, and theater studies, as well as student groups such as Hoof 'n' Horn, the Duke Chamber Players, and the Duke Marketing Club. The show, which debuts April 5 in Reynolds Theater, re-creates an epic narrative of different ethnic communities in early twentieth-century New York—a fittingly

ambitious work for Hill's thesis.

To bring *Ragtime* to life, Hill worked with the departments of music, dance, and theater studies to identify a project with enough pedagogic integrity that it could be offered as an academic class. The three departments agreed to cross-list a course, in which many of the more than 100 cast and crew members are now enrolled. The production has a budget of around \$50,000—significantly more than average for theater shows.

While Duke doesn't currently offer courses focused explicitly on producing, the theater department's new core requirements in acting, directing, dramatic writing, and design can yield the kind of well-rounded skills producers need, says Jeff Storer, professor of the practice in theater studies and one of Hill's advisers.

"Any producer needs to know how theater is made," he says.

Hill's energy and drive, however, aren't products of a classroom. "Nate is a force of nature," says Storer. "There's never been anyone like Nate in my thirty years here, someone so certain of where he's headed and how to make the most of Duke."



A man of distinction: Nathaniel Hill, center, with *Ragtime* cast members

Been There

Me Too Monologues seek to break down isolation.

Alone on a stage, senior Alison Kibbe has just finished speaking about feeling alienated for Christian beliefs, while at the same time feeling judged by other Christians. Naomi Riemer '13, who has been listening intently, speaks up.

"By the end of your monologue, you need people to realize that you're not criticizing Christianity, but you're criticizing the people who use Christianity to be self-righteous," she suggests.

A few days later, Kibbe performed the monologue, along with another written by an anonymous Duke student, for the fourth annual *Me Too Monologues*, a collection of narratives written and performed by Duke students. Conceived as a way for

students to bond through common experience, the monologues typically explore struggles with identity. "This is one of those pieces we read, and we were like, this is what *Me Too* is about," says Riemer, the show's assistant director, of Kibbe's monologue.

The brainchild of Priyanka Chaurasia '10, then-president of Duke's Center for Race Relations, the monologues originally focused on racial identity. The show has since expanded, both in number of performers and in the range of topics they discuss. At this past February's show, fifteen students delivered nineteen monologues on topics dealing with gender, nationality, sexuality, and religion.

"We hear about all of these issues of racism, sexism, but we forget that people are living these lives," says Afftene Taylor '12, the show's director. "The mission of *Me Too* is to give a platform for different people to express themselves."

As an audience member in its first year, Taylor fell in love with the concept. "It was raw, real, uncut, and comfortable—but uncomfortable," she recalls. She delivered a monologue the following year.

"A lot of these monologues are about having a secret and then choosing truth and freedom over lies and bondage," says Taylor. "It's gratifying to hear other people express those thoughts and think, 'Oh, me too.'"

Josh Gibson '95, associate director of the Program in the Arts of the Moving Image, won Panasonic's "Five Flavors of Filmmaking" contest at the Slamdance film festival in Park City, Utah. His one-minute film, *Watermelon*, illustrated seventeenth-century haikus featuring the fruit, whitefish, white leeks, and a blanket of snow.



Let's Dance

An academic discussion of flamenco—followed by flamenco

It's rare to see students out of bed at 10 o'clock on a Saturday morning, but East Duke 209 was packed beyond capacity for the opening lecture of "Flamenco Alive!: New Research in the Vital Art of Flamenco." Perhaps it was the anticipation of the following weekend's performance by the Flamenco Vivo dance company—or the promise of a master class led by Carlota Santana, Flamenco Vivo's artistic director—but this was one academic symposium that got people on their feet.

Flamenco, the energetic style of dance and music that originated in the Spanish region of Andalusia, has transcended artistic expression to become a cultural touchstone, one seen as integral to the region's cultural heritage. Part of the conference focused on scholarly reflections on the art form, with a panel of experts weighing in on the tensions between preserving its traditions and cultivating creative innovation. "It's a productive tension," said William Washabaugh, a professor emeritus of anthropology at the University of Wisconsin-Milwaukee, who recently published a book on preserving flamenco. "It's like rowing a boat: You're facing backwards while going forward."



Their turn: Carlota Santana's master class at the Ark attracted students of all dance levels.

Barbara Dickinson, a professor of the practice of dance and organizer of the Feb-

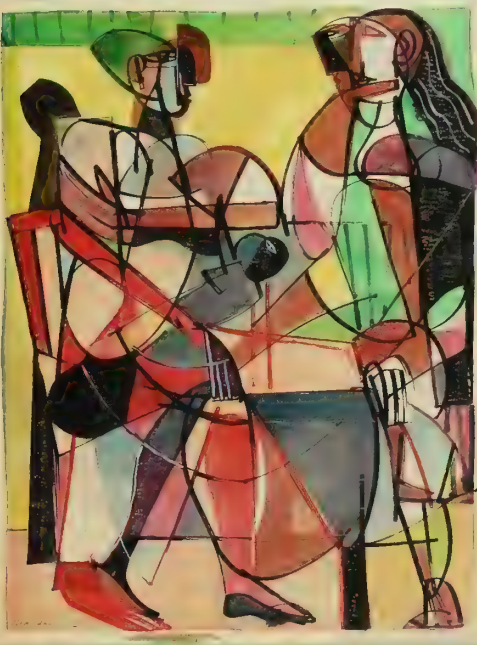
ruary symposium, was particularly excited about keynote speaker Meira Goldberg, who studies the black and African roots of flamenco. "Her research into African rhythms and influence is fascinating because of our African-American dance program," Dickinson says. In fact, several students of African dance came to the event to broaden their cultural dance vocabulary.

But Dickinson also was determined to move more than the audience's minds. Presentations were sprinkled with video clips and audio tracks that had participants tapping along. Those who signed up early enough went on to the afternoon session with Santana, who taught a similarly popular course through Duke's dance program this past fall.

"Embodied knowledge is so rich," Dickinson says. "When you get into a dance, you enter into the cultural values of the art form. You really enter into another world."

GALLERY

Selections from the Nasher Museum of Art



The Family, 1948. Romare Bearden, American. Watercolor and gouache on paper, 26 x 20 inches, Museum Purchase, 1998.12.1

Born in Charlotte in 1911, Romare Bearden moved with his family in 1914 to Harlem, where he spent much of his adult life. He studied at the Art Students League of New York under George Grosz in the 1930s, and for much of the next three decades, he worked full time at the New York Department of Social Services, leaving only nights and weekends to paint. In 1963, he helped found the Spiral Group, a collective of New York-based artists, including Felrath Hines, Hale Woodruff, Norman Lewis, and Charles Alston, which explored the role of the African-American artist in the civil rights struggle.

This painting from the Nasher Museum's collection shows a family of three, the father holding an infant while the mother looks on. Such depictions of family recur in Bearden's works, underscoring his interest in community, biblical imagery, and the universality of human experience. Painted in the visual language of Cubism, with the figures' faces and bodies shown in multiple perspectives, the work also has elements of abstraction, a movement that gained prominence in the U.S. in the 1930s and '40s. Black lines intersect and break up the composition, creating blocks of color comparable to those in Bearden's later collages and mosaics.

To celebrate the 100th anniversary of Bearden's birth, the Nasher Museum is taking part in a project organized by the Bearden Foundation titled "Romare Bearden: 20th Century American Master." The Nasher's installation, on view through June 3, will include works such as *The Family* alongside the work of other American artists of Bearden's generation from the museum's permanent collection and on loan from local private collections. www.nasher.duke.edu



Good news, bad news: Demographic shifts have virtually erased segregation, but not racial inequality.

Bach for Your Prostate

Music eases anxiety of medical procedure.

When Don Young needed a biopsy to test for prostate cancer, he was apprehensive about the procedure. But he got some help from an unexpected source.

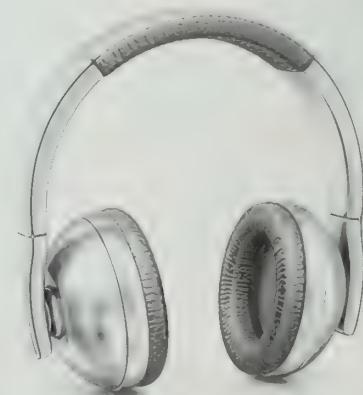
Johann Sebastian Bach.

Young, of Durham, was among a group of patients at the Duke Cancer Institute who listened to Bach concertos on headphones during prostate biopsies, part of an experiment to see whether music eased patients' nerves during the often-uncomfortable procedure. It did: Researchers found that patients listening to Bach had lower blood pressures during the procedure and reported feeling less pain than those without music.

In a typical year, about 700,000 men in the U.S. have prostate biopsies, the only reliable diagnostic test for prostate cancer. The subjects in the Duke study received a type of biopsy involving an ultrasound probe and a spring-loaded needle, which makes a loud noise when released. The noise alone often causes elevated stress and blood pressure levels in patients.

A group of medical students came up with the idea to block the sound with Bach. And in Young's case, it worked—even though he's not a big fan of classical music.

"The music, it actually took my mind somewhere else," says Young. "It really calmed me, and before I knew it, the whole thing was over."



Classical distraction: Music reduces stress by blocking biopsy noises.

Suburban Swirl

Study finds near-record levels of racial integration in cities.

In 1975, the extreme racial segregation of many American cities led George Clinton and the funk band Parliament to record "Chocolate City," which contrasted several cities with nearly all-black populations with their "vanilla suburbs."

What has happened since is nothing short of remarkable, says Jacob Vigdor, a Duke professor of public policy and economics. "America's neighborhoods are much less segregated than they used to be, and we need to appreciate the story of how it happened," he says.

In fact, a study by Vigdor and Harvard economist Edward Glaeser recently found that American cities are more integrated now than they've been since 1910, the result of persistent demographic shifts that have played out during the past half-century. While white gentrification of traditionally black neighborhoods is a minor factor, the main driver of desegregation is the movement of minorities into more-diverse cities and suburbs, Vigdor says. "It's primarily a story of progress, of black families choosing to leave segregated cities and live in more diverse areas elsewhere."

The report, based on census data and written for the Manhattan Institute for Policy Research, notes that fifty years ago, one-fifth of all neighborhoods in U.S. metropolitan areas had no black residents. Today, more than 99 percent of neighborhoods are integrated, with the exceptions tending to be remote, rural areas or cities with very few black residents overall.

The demographic shift has virtually erased the segregation that ensued in the first half of the twentieth century, after millions of black families moved from the South to escape Jim Crow laws. During that time, African Americans and immigrants often were shunted into designated neighborhoods by discriminatory housing policies.

The authors caution that an end of segregation does not mean an end of racial inequality. However, Vigdor says, the increased mobility of African-American families—and the virtual extinction of all-white bastions that mobility has created—are unsung success stories. "Poverty might keep some families out of some neighborhoods these days, but race does not," he says. "That is a real accomplishment."

A Moment of Silence

Break in ship noise after 9/11 reduced stress in whales.

The days after the September 11 terror attacks—a period of high stress and anxiety for most Americans—turned out to be a relief for at least one group.

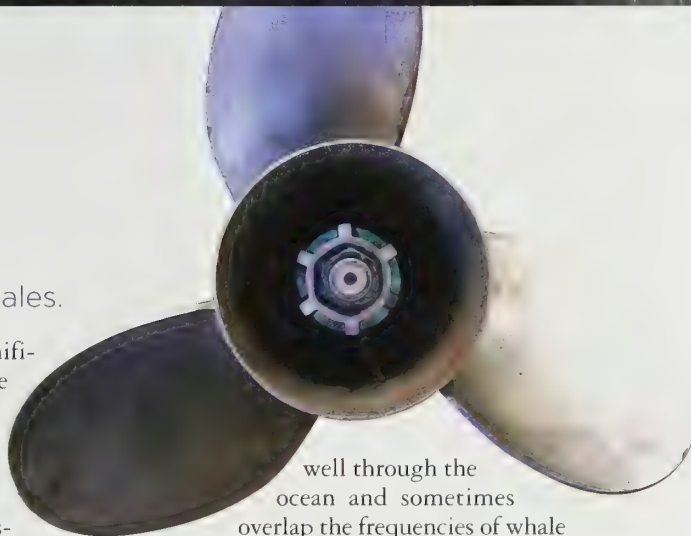
Whales in Canada's Bay of Fundy experienced less stress during the period after the attacks, when ship traffic came to a standstill, according to new research from the Nicholas School of the Environment. The research team relates the change to reduced noise from ships during the temporary lull.

"There was a six-decibel decrease in underwater noise in the bay following 9/11,

with an especially significant reduction in the low-frequency ranges below 150 hertz," says Douglas P. Nowacek, Repass-Rodgers University Associate Professor of marine conservation technology. He says scientists saw a similar drop in stress-related hormone metabolites in whale fecal samples collected later that fall.

The low-frequency sounds made by the propellers and engines of large ships travel

well through the ocean and sometimes overlap the frequencies of whale communication. Past studies have shown a connection between ship noise and behavioral changes in whales, including alterations in the whales' own calls, says Nowacek. This study is the first to document physiological changes in mammals that correlate with ship noise.



SYLLABUS

Psychology 120B.01: Looking Inside the Disordered Brain

At Duke, "anxiety" is hardly an unusual word. But where does anxiety disorder come from? How about schizophrenia? Obsessive-compulsive disorder? Depression?

These questions drive Ahmad Hariri's course "Looking Inside the Disordered Brain," which begins its third iteration this coming fall. While the course tends to attract biology and psychology students, Hariri, a professor of psychology and neuroscience, insists that the subject matter is intended for a broad audience.

That said, the course maintains a necessarily strong biology component, as students must first understand the physical structure of the brain. Only then can students move on to comparing normal and irregular behavior in the brain. Using a three-pronged rubric of anatomy, behavior, and disorder, the students delve into the four major parts of the brain. Students explore the amygdalae, or the threat center; the hippocampus, or the memory center; the prefrontal cortex, or the decision-making circuit; and the striatum, which includes the reward-seeking circuitry of the brain.



The class recently became a requirement for graduate students in clinical psychology, and while the course continues to draw students from a variety of disciplines, many tend to come from a traditional psychology background. Hariri finds his biggest challenge is

helping these students transition to the less familiar biology of the course.

Even so, Hariri emphasizes that the class is open to any students willing to work (provided they have the appropriate academic background) and should be of interest to anyone who has won-

dered about the function and structure of the brain.

"There's nothing more interesting, more captivating, and exciting than exploring human behavior," he says, "unless you're not at all curious about human nature, which I think is maybe one or two people on campus."

Professor

Ahmad R. Hariri is a professor of psychology and neuroscience and an investigator in the Institute for Genome Sciences & Policy. As director of the Laboratory of NeuroGenetics, he oversees the Duke NeuroGenetics Study, an effort to map predictive links among genes, brain, behavior, and environment.

Prerequisites

PSY 101RE: Biological Bases of Behavior

Readings

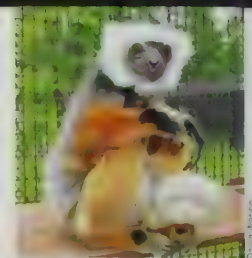
Various articles; textbook in production

Assignments

Weekly attendance and participation

—Aziza Sullivan

Staff members at the **Duke Lemur Center** mourned the January death of Romeo, one of the center's most beloved and rarest animals. The nineteen-year-old sifaka lemur was the only one of its kind in captivity outside of its native Madagascar.



The Century Club

Researchers scour centenarian genomes for clues to long life.

Only a hardy few of *Duke Magazine's* readers were around when the university hired its first campus barber (see By the Numbers, page 9) or publish its first yearbook (see page 11). If you're one of them, David Goldstein wants to talk to you.

Goldstein, a professor of molecular genetics and biology, isn't interested in haircuts or yearbooks per se, but rather in the vitality of people who have survived as long as those campus traditions. As part of a national study, he and the Duke Center for Human Genome Variation are collecting DNA from volunteers who have lived 100 years or more in hopes of identifying genes that correlate with longevity.

Such genome-wide studies have become more common as the technology to analyze whole genomes has improved. Researchers can now scour genetic data from thousands of people to find genes associated with common health problems. In the case of the centenarian study, scientists hope analyzing the genomes of people who have survived for more than a century will reveal genes that protect them from the harmful effects of aging.

The Duke team, however, is exploring a different possibility. "Our hypothesis is that centenarians live a long time because their genomes don't have as many harmful mutations," says Goldstein.

Our genes carry thousands of tiny mistakes—copying errors—that pile up over generations. Some mutations are known to cause specific problems, such as genetic variants that increase the likelihood of certain cancers, while others have no effect on health. Goldstein and his team think the key to longevity may be having a relatively mistake-free genome—in other words, one that minimizes the potentially deleterious effects of too many mutations.

"Other researchers are looking for protective variants, but we're looking for a relative absence of things," says Liz Cirulli Ph.D. '10, a postdoctoral fellow working on the study.

The centenarian study is only one year in, and Goldstein and Cirulli have no idea how long it will take to see if their hypothesis is right. "It might be years, or we might have statistical significance in our next sample," says Goldstein. One challenge will be finding enough centenarians to participate, since the overall population of people above 100 is small to begin with.

But even with enough data, finding genetic associations is not as simple as matching letters of code. "It's common to think that genetic effects are simple, but in reality, they interact with one another in countless ways," Goldstein says. "When it comes to understanding genetics, we are almost nowhere. We are at the absolute beginning."

BIBLIO-FILE

Selections from the Rubenstein Rare Book & Manuscript Library

Charles Dickens' first novel, commonly called *The Pickwick Papers* (1836-37), sent the memorable characters Samuel Pickwick and Sam Weller on a series of comic adventures through picturesque England. The book—a first edition of which is held in the David M. Rubenstein Rare Book & Manuscript Library—also launched Dickens into prominence. The author, whose 200th birthday will be celebrated this year, became the publishing phenomenon of the Victorian age. His novels crossed boundaries of class, gender, and race to become worldwide favorites.

Dickens also transformed the business of writing, publishing, and selling literature. Most of Dickens' novels were published in monthly serialized

parts, with delightful illustrations by his main collaborator, Hablot K. Browne (who used the pseudonym "Phiz"). This format became a strong brand, but it also transformed the works themselves. Plots often changed midstream to spur sales, and new works such as *Hard Times* were begun to save a struggling magazine or promote a charitable cause. Dickens became an industry unto himself, with innumerable agents, booksellers, imitators, plagiarists, pirates, and hangers-on making a living from his name.

One of the earliest and most notorious of the plagiarists, Thomas Prest, wrote many knockoffs of Dickens works, with misleading titles such as *Oliver Twiss* and *The Penny Pickwick*. These and other rare



The price of popularity: *The Posthumous Papers of the Pickwick Club* by Charles Dickens, left, inspired imitations such as Thomas Prest's knockoff *Penny Pickwick*.

works from his time, as well as other works of Dickens, will be on display in the Rubenstein

library exhibition "Charles Dickens: 200 Years of Commerce and Controversy," through April 1.

—Will Hansen, assistant curator of collections



Fundamental particles: Simulated experiments allow researchers to speculate how electrons might react under different conditions.

Not So Negative

Seeing inside an electron, virtually

Matthew Hastings didn't need a huge particle collider to split an electron. Instead, the Duke physicist did it virtually, with the help of several massive supercomputers.

Hastings and a team of physicists designed the model to understand what might happen if an electron, one of the fundamental particles of matter, was broken up. They created a simulated environment of ultra-cold temperatures, near -459 degrees Fahrenheit, where electrons overcome their natural repulsion to each other

and begin to cooperate. By placing a virtual electron into a quantum fluid, an exotic state of matter where electrons begin to condense, they were able to fracture the electron into two pieces, each with one-half the original particle's charge.

The simulation was the first experiment to identify subparticles with partial properties of an electron, opening up new questions about the particles' capabilities. The unique breakthrough also suggests that physicists don't necessarily have to smash matter open to see what's inside.

Sharing the Love

Hormone behind mother-baby bond helps monkeys cooperate.

Oxytocin, the "love hormone" that builds mother-baby bonds, also makes monkeys a little more sociable. In a study at Duke's Institute for Brain Sciences, rhesus macaques who inhaled oxytocin were more likely to make a decision to give another monkey a squirt of fruit juice, even when they didn't get a reward themselves. The monkeys also paid more attention to others, a good sign the hormone can help break down normal social barriers.

Oxytocin currently is being evaluated as a therapy for autism, schizophrenia, and other social disorders, but not much is known about how it works. The study may help establish monkeys as a good behavioral model for understanding the hormone's effects and how it can most effectively be used in therapy, says Michael Platt, a professor of neuroscience who led the study.

The Brain as Common Ground

New discipline seeks to bridge neuroscience and humanities.

When a few dozen students and faculty members gathered last fall for the first meeting of Duke's Neuro-humanities Research Group, neuroscience professor Michael Platt welcomed them by acknowledging the fuzzy boundaries of the fledgling discipline. "If you're wondering what neurohumanities is, so are we!" he said.

Six months later, the group continues to congeal. Cosponsored by the Duke Institute for Brain Sciences and the Franklin Humanities Institute, the interdisciplinary group is working to create more intersections between brain sciences and the humanities. The group's organizers point out that scholars in those fields often study similar concepts—such as the meaning of language or how people react to music—but they approach them in different ways. Neurohumanities is about bridging that gap.

"We believe that Duke can be an international leader in this enterprise and powerfully shape the definition and scope of this new transdiscipline," says Deborah Jenson, a professor of Romance studies who along with Platt and neurobiology professor Richard Mooney convenes the group.

The group has invited guest lecturers such as Mark Changizi, an evolutionary neurobiologist and director of human cognition at the research organization 2AI. Changizi, who did postdoctoral work at Duke in psychological and brain sciences, talked about drawing inspiration from art. "Artists, and the humanities themselves, are experimentalists on what minds like and don't like," he said. "So what is it that artists have discovered about the mind, and what is repeated enough that it can tell us something about the brain?" Other lecturers have explored topics such as cognitive approaches to literary focus and what it means to "read the brain."

Jenson also launched Duke's first neurohumanities course this past fall, a broad sweep of literature and neuroscientific techniques called "Flaubert's Brain."

SPORTS

Twin Lives

Laetitia Beck '14 followed golf to Duke, but her life might have taken a different course.

It's a balmy, sun-drenched afternoon in late January, the kind of day when golfers will skive a couple hours to play a round or two. But up in the study room of the Karcher-Ingram Golf Center—a stately facility behind the Washington Duke Inn that serves as home base for the Duke golf teams—sophomore Laetitia Beck isn't even looking outside. Instead, she is poring over a psychology textbook, her white earbuds buzzing with the sounds of pop music from her other home, Israel.

Beck moved to Israel from Belgium with her family when she was six. Her parents, who enjoyed playing golf recreationally, moved to Caesaria, the only city in Israel with an eighteen-hole golf course. They soon discovered their daughter had a natural talent for the game. She won her first

Israeli Golf Open at the age of twelve, setting her on a path defined by golf. At fourteen, she left Israel for the prestigious IMG Academies in Florida, where she attended boarding school while working on her game. Last August, she qualified as an amateur for her first Ladies Professional Golf

Last August, she qualified as an amateur for her first Ladies Professional Golf Association event, becoming the first Israeli to play in the LPGA.

Association event, becoming the first Israeli to play in the LPGA.

But it's not hard to imagine Beck's life going a different way. Just look at her twin sister, Olivia.

While Laetitia Beck works on her putting, Olivia Beck collects border-surveillance information for her unit in the Israeli

army. Completing compulsory military service is a rite of passage for Israeli youth, and it is in many ways hard for Laetitia to miss it. When Olivia completed basic training and received a beret marking her entry in the Field Intelligence Corps, Laetitia admits she was jealous. Yet she knows she is representing her country, too, in her own way. "My number one goal is to represent my country and the Jewish people," Beck says.

At Duke, Beck's identity is on display in subtle moments. She keeps kosher on and off the road, and the Duke golf staff has taken a crash course on Jewish dietary laws to accommodate her. "The coaching staff was unaware of kosher dining, that's for sure," recalls Rebecca Simons, director for Jewish Life at Duke. Members of the team are also quite familiar with

Beck's penchant for Bamba, a peanut butter-flavored Israeli snack food. "Sometimes they'll ask about Jewish holidays or Shabbat," Beck says, "but I don't really like to talk about politics." When golf doesn't interfere, she does her best to make it to Friday night dinners at the Freeman Center for Jewish Life.

But Beck has long been both a part of Israel and apart from it. After her victory at the Israeli Golf Open, her parents and coaches explained she had to commit to the sport if she truly wanted to excel. With so few highly competitive golf players in Israel, she knew she would have to leave home to become the player she thought she could be.

In Florida, Beck faced a host of trials. At home she spoke mostly French and Hebrew, and she struggled to speak English exclusively. With no family in the U.S., she ended up spending a lot of time alone, focusing on her game, but losing contact with her few remaining Israeli

Soccer's Top Choice

Pop quiz: Who is the most recent Blue Devil to be selected as the top pick in his sport's professional draft? Hint: It's not Kyrle Irving.

Andrew Wenger, a junior from Lancaster County, Pennsylvania, signed with the Montreal Impact after the team made him the first overall pick in the Major League Soccer draft this past January. Montreal is the newest club in the nineteen-team MLS, which has expanded from ten teams in 1996 and recently announced a new deal with NBC to televise league matches.



"Slowly but surely, soccer is becoming more prevalent in the media," Wenger says. "It can do nothing but good things for the sport."

A midfielder in high school, Wenger proved his versatility at Duke. He played his first two years as central defender, earning ACC Rookie of the Year and ACC Defender of the Year honors. This past year, he moved to striker, where he became the ACC Offensive Player of the Year and won the Hermann Trophy, soccer's top player honor. He also was selected to train with the U.S. Under-23 National Team leading up to the Olympic qualifying rounds in March.

Despite all the excitement, Wenger does express regret at leaving Duke before his senior year. Though he is hopeful he can complete his degree away from Duke, friendships will be less portable than his coursework. "The relationships I've built here have been immense," he says. "I could be back to watch a few games...or see Duke play in the national championship."

—E.L.

Manning Blue: Four-time NFL most valuable player **Peyton Manning** was spotted working out at Duke in February as he recovered from neck surgery. Manning was coached at Tennessee by Duke coach David Cutcliffe, who also coached his brother, Super Bowl MVP Eli Manning, at Ole Miss.



Border crosser: Israeli citizen and varsity golfer Laetitia Beck at the UNC Tar Heel Invitational last fall.

Jon Gardiner

friends. Her golf game was being noticed by college coaches, but she knew little about American universities.

"I didn't really know what college was, about unofficial letters, about the whole process, so I committed early," she says. Back in Israel, she completed required military examinations and applied to postpone her service until after she finishes her golf career.

"The golf program here is great, and I know that I'm getting a good education at the same time. The Duke degree really means something," she says.

Nearing the halfway point of her college years, she says she's still working on her

game—both athletic and social. Like many student-athletes, she finds her friends are mostly people on sports teams, who share the same regimented schedules. Her roommate, Hannah Mar, is a sophomore on the tennis team and a former gold medalist at the Maccabi Games in Israel.

"I know I'm kind of different from students here. I don't want to go out partying and all that goes with it—I just want to play sports," says Beck. "But it's hard to meet new people when you don't have the same schedule."

It can be tough, being stuck between two homes. She laments that her Hebrew has grown rusty, and she doesn't know

many people in Israel anymore, except through her sister. Someday, when golf is done, she hopes to return.

For now, though, there is homework to do. Beck shrugs off her bit of melancholy and turns instead to her first assignment for her "Introduction to Visual Practice" course, six hand-drawn variations of a wolf. She's thinking of giving the wolf a blue eye. It's the color of her twin lives, the blue-and-white of Duke, the blue-and-white of Israel. As she puts it, "Now I play for Duke, but when I'm not, I'm wearing the Israeli flag."

—Elissa Lerner

Q&A



Megan Mori

Stephen Kelly

Associate director of Duke's Center for Canadian Studies

Discovering Our True North

Before coming to Duke in 2008, Stephen Kelly spent twenty-eight years in the U.S. Foreign Service, holding diplomatic posts on four continents. Nearly a decade of that time was spent in Canada, where he worked on issues involving energy, trade, and border management. Now a visiting professor of the practice of public policy, Kelly serves as associate director of Duke's Center for Canadian Studies. We talked to him about our northerly neighbor—and how Duke came to have a special relationship with it.

So, Canada...it's America Jr., right?

Americans know very little about Canada, and most of what we know is wrong. We tend to think, they're just like us, they all like us, and they're all white. The truth is Canada is very multicultural—about 50 percent of Toronto is foreign-born, and 22 percent of the Canadian population is French-speaking Quebecer. We think it's a compliment to say that they're like us, but we're generally ignorant, and we take Canada for granted. Canada is the largest foreign trading partner for thirty-six states, including North Carolina.

But we do have a lot in common, don't we?

In class, we talk about what it means to feel "North American." You don't realize it, but when you meet a Canadian or a Mexican in Shanghai or New Delhi, you realize how much closer you feel to them than everyone else around you. We share a lot; we're all big countries. Getting in your car and driving for five

How do Canada and Mexico figure in our approach to foreign policy?

We get ourselves into far-flung corners, but our interests and efforts are far better invested here. Of the oil we import, most of it, by far, comes from Canada and Mexico. When we buy oil from our neighbors, the money comes back in trade. If we invested a tenth of the money from the war in Iraq in Mexico, that money would all come back to us in trade. If I ever wrote a book on the subject, it would be called *Missed Opportunities*. Canada means more than \$400 billion a year in trade for us, so a little sustained effort can go a long way.

How did you get interested in Canadian and North American affairs?

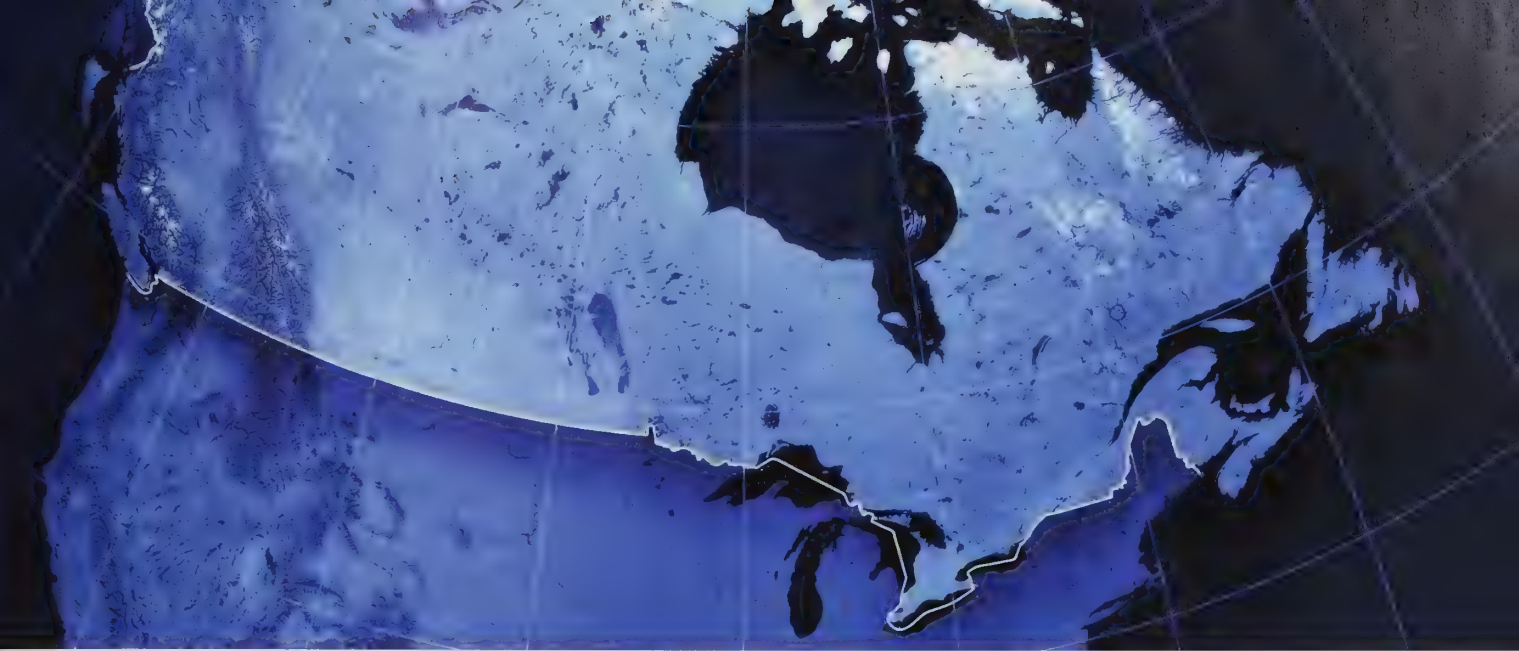
I wandered into it. I joined the State Department in 1982 and went to Mali. Then I went to Brussels, then Indonesia, and then Quebec City in 1995. It was a great time to go to Canada because the Quebecers were voting on separation from Canada, and there would have been a tremendous impact on the U.S.

if Canada broke up. I got to know the separatist movement quite well, and I got bit by the Canada bug.

After Quebec, I went to Holland, but went back to Ottawa for four years, and I was there during 9/11. Canada was a tremendous help—some 200 planes had taken off overseas and had already flown too far to turn around. Canada took them in. These tiny places with tiny airports, like Gander, Newfoundland, a town of maybe 10,000, took in something like

If I ever wrote a book on the subject, it would be called *Missed Opportunities*.

hours to get somewhere is not a big deal to a North American, whereas in Europe, you'd be crossing five countries. North Americans also don't worry about resources, especially water. And we also share history—we've all fought wars against France, England, and Spain, and also against each other. We've been interrelating for a long time, but we don't expressly acknowledge this.



6,000 extra visitors that day. People took them into their homes and turned schools into shelters. That story convinced me that when [we neglected] Canada, we were cutting our nose off to spite our face.

What's your classroom like?

I'm a practitioner, not an academic. We write State Department-style memos in class and learn what to leave in and, more important, what to leave out. You have to write exactly what you want the department to do. We also practice giving succinct oral briefs, which is a skill in which you don't get much practice. Many of my students want to join the Foreign Service, and I've helped two students get summer internships so far—one at the Office of Canadian Affairs in D.C., and one at the U.S. embassy in the Vatican.

How did it get so that we know so little about our neighbors?

From 1994 to 2000, trade and foreign reciprocal investment increased enormously. But 9/11 really set that back. Vicente Fox Quesada, the then-president of Mexico, had visited President Bush in D.C. on September 6, 2001. They knew each other quite well. Bush's first international trip was to Mexico, the second was to Quebec City. But then we became obsessed about security...rightfully so, but as a consequence, we've "thickened the border."

A united North America: good thing or bad thing?

My bias is that more cooperation is better. Whether EU-style borders are better,

I don't know. But for one, more cooperation would enhance trade—it's good for us and them. We haven't done a good job of showing why NAFTA is good. But if President Obama wants to increase exports by 100 percent in the next five years, what better place is there to start than with our largest trading partners? For another reason, we'd have better control of energy. The northeast blackout of 2003 started in Ohio but it spread all the way through eight states and Ontario. Who knew we were on the same electrical system?

Energy and trade, these are no-brainers. My hobbyhorse is continental defense. Can we counter drug trafficking, cyberattacks, and terrorists without partnerships from our neighbors? I think no. On the other hand, labor would be harder. Mexico is just so much poorer than the U.S. and Canada that the disparity is hard to overcome. We're not ready, certainly not in the near future, for an open labor market or to allow free movement.

Aside from cultural similarities, how have we maintained peaceful borders with both countries?

Well, part of that has to do with water. Forty percent of our border with Canada is water. Ever since Teddy Roosevelt's Boundary Waters Treaty of 1909, trans-border water resources have been managed peacefully. And we have a similar situation with Mexico with the International Boundary and Water Commission [which originated in 1889 and was renamed in 1944]. We could never get something like that to pass today; it's the product of a very progressive era. These

treaties are mechanisms to measure and track water disputes and accountability. And water is the next big issue, before famine, and after oil is over. We could certainly do worse for neighbors. Imagine if our neighbor was Venezuela. That 5,525-mile border would be a problem.

How did Duke's Canadian studies department get started, and how has it survived?

Canadian studies started in 1974; we had a British Commonwealth program before that. Many leaders in the field of Canadian studies got their Ph.D.s here. But the interest level dropped off for a while—China has come on like gangbusters. Then Duke hired Jane Moss in 2005, and she became director of the center in 2008, and I arrived at the same time. We started getting grants from the Canadian government and planning more programs with a departmental endowment from a long time ago.

James B. Duke built the first hydroelectric plant facility in Quebec to provide power to his lumber and paper companies, and that eventually became part of Hydro-Québec, the largest hydroelectric power in the world. So there's a connection—that's partly where the endowment comes from. And we have more Canadian alumni at Duke than any other foreign group at the school.

What's your favorite Canada joke?

What's the difference between a Canadian and an American? A Canadian is an unarmed American with health insurance.

The interview was conducted, condensed, and edited by Elissa Lerner.

Running Together

There's more than meets the eye when two friends hit the trail.

From out of the dusk on a gorgeous autumn day, two men, both shirtless, run toward me. Bright leaves drift down from the trees, carpeting the ground beneath our feet as my friend and Duke colleague Priscilla Wald and I enjoy our weekly walk around the Al Buchler Trail, a three-mile forest path that encircles the Washington Duke Inn. The men are about the same height, maybe in their mid-thirties or early forties, and running faster than seems possible while navigating tree roots, casual walkers, and all-terrain baby carriages. Their vigorous grace makes me smile. They smile back. It's only when we loop past them a second time that something else about their running captures my attention. Avoiding a puddle in the center of the path, the men don't split, but rather they each veer to the right, their footfalls continuing in unison. They run so close they seem to be touching.

Once again, the men smile as they whizz past us. This time we notice: The front runner is blind.

Many blind people run, typically with the aid of a sighted guide. Some use a rope or a tether, while others, like these men, rely on interpersonal communication. At the speed they were going, this kind of successful collaboration is no small feat. With its roots, rocks, and uneven terrain, the forest path challenges even accomplished sighted runners, but the pair seemed to navigate it effortlessly. The ease of their partnership intrigued me. Much of my academic work focuses on new models of collaborative learning, and I wondered if these runners might help me understand something about working together across differences in skills and perspectives.

The community of Duke Forest runners is small enough that I soon learned the identity of the blind runner. His name is Curt Taylor, and he is a professor of economics at Duke. From his website, I find out that although he is 100 percent visu-

ally impaired, he is also a marathoner who has clocked a time of 3:17:20, fast enough to qualify for the Boston Marathon. His running partner is Jeff Wilcox. Jeff's wife, also an economist, teaches at the Fuqua School of Business. For the past few years, Jeff has been a stay-at-home father, caring for their three young children.

We arrange to meet at Curt's office on the third floor of the Social Sciences Building. In Curt's office hang photos of his three children, all of whom are sighted. There are bookshelves everywhere, overflowing with cassette tapes of books and articles recorded by assistants and interns over the years.

Curt greets me warmly. He looks me in the eyes when we meet, and I notice throughout our conversation that he turns his head toward me when I speak. When

I remark about this, he says he learned early that facing the speaker is important in communicating with sighted people. He has also trained himself to hear gestures. He notices the different modulations in a voice when someone is nodding in agreement or shaking her head. He nods, too, at appropriate times, knowing his gestures facilitate communication.

Curt lost most of his sight in his right eye to disease when he was two and a half years old. "Late enough," he says, to "have a visual language." His remaining eyesight dwindled throughout his childhood, and by age eleven, he was completely blind. When he was twenty, surgeons placed a cornea implant in his left eye, briefly restoring his sight. After six months, however, the transplant failed, and he has seen nothing in the past twenty-three years.

When Jeff arrives, the tone of our interview becomes suddenly lively and warm. Jeff has a musical voice and a self-effacing affability that creates instant ease. The conversation turns to running, and I express my appreciation for how they can navigate the forest path so efficiently. Jeff

immediately lauds Curt's ability to run over the tops of the tree roots and boulders at top speed without falling. Most sighted people, Jeff insists, couldn't pull that off.

Although Curt began running in high school, he stopped as an undergraduate at the University of Washington, then took it up again while in graduate school at Yale. During his nine years teaching at Texas A&M, he began to run competitively because, he jokes, there wasn't much else to do there. He ran in the Houston Marathon twice. He's since joined various track clubs, and he's run with many different partners over the years.

The chemistry with Jeff was immediate. Curt suggested Jeff keep a hand on his elbow as they ran, and they quickly worked out ways to share information about turns and changes in terrain. Rather than bark out orders, Jeff directs Curt with subtle touches, pushing or pulling Curt gently with his hand to change his course. From the pressure of the touch, Curt senses how far to turn. They talk while they run, chatting about sports, beer, women, and favorite banana-bread recipes. Occasionally Jeff interrupts with a brief update, relayed in their unique shorthand. "Bridge up in two," for example, means in two steps, be prepared to step up onto a bridge.

The interesting thing about this interplay is that they both get something out of it. Jeff's instructions enable Curt to run safely in the forest, something he much prefers to an ordinary track. In turn, Curt's strength and marathoner's stamina push Jeff beyond his triathlete's limits. Jeff also says there are things Curt notices about people that he misses. He can tell when a pretty runner crosses their path, for example, because he hears people's voices change as they turn their heads to watch the runner head in the opposite direction. "Those patterns of attention are deep," Curt says, "but sometimes I don't think other people notice them as much as I do. For me, they are clues. Most people don't know what clues they are giving away."

While Curt sees the path through Jeff's eyes, Jeff sees it anew by seeing it for Curt. The things Jeff does naturally while run-

Rather than bark out orders, Jeff directs Curt with subtle touches, pushing or pulling Curt gently with his hand to change his course.



Jon Gardiner

Step by step: Curt Taylor, left, and Jeff Wilcox navigate the Al Buehler trail with ease.

ning—speeding up, ducking a branch, negotiating a ground obstacle—become less automatic because they require attention and communication. He has to anticipate and articulate the challenges, forcing him out of habit. In a sense, Jeff runs a different path with Curt than he would be if he were running alone.

It's the same for me, too. I've walked that forest trail probably fifty times, maybe a hundred, but I am seeing only a portion of what there is to see. My perception is colored by my experience, as well as the experience of my companions. When I am walking with my friend Priscilla, a literary scholar with interdisciplinary expertise in genomics and im-

munology, our conversation often drifts toward her research on genes and germs, or mine on collaborative, interactive digital learning. This is wonderfully enriching for both of us, but I have to wonder what I am missing during our intense conversations.

What would I see differently if I ran the path with Curt? No doubt I would discover hundreds of things—a jagged stone or bended branch—that had eluded my vision before. More important, I would learn things about myself, about what I see and do not see, what my own habits of attention make invisible.

I still occasionally encounter Curt and Jeff on my walks in the forest. But these

days I don't see a sighted runner leading a blind man through the woods. Curt and Jeff helped me understand the ways we all change one another's experience in the world. Only when we put our trust in someone else—as Curt has in Jeff, and as Jeff has in Curt—do we really begin to see.

—Cathy N. Davidson

Davidson is a professor of English and interdisciplinary studies with Duke's John Hope Franklin Institute. Her most recent book, Now You See It: How the Brain Science of Attention Will Transform the Way We Live, Work, and Learn, was reviewed in the September-October 2011 issue of Duke Magazine.



American Tobacco Campus



Durham scene



Bull Rising

By Eric Ferreri

A decade of redevelopment has breathed life into downtown Durham. But the city's remarkable turnaround is about more than bricks and mortar.

Moments after Brad Brinegar told the staff of McKinney advertising agency that it would be moving from Raleigh to Durham, six employees came to him with some version of the same question: "Why are you giving me a death sentence?"

Brinegar, McKinney's CEO, understood the concern. This was 2003, and Durham hardly had a stellar reputation. The city's center was a ramshackle version of its once-vibrant self. The red-brick tobacco warehouses that had pumped life into the city's economy had fallen silent years earlier, when cigarette production moved out of town. Huge



Brightleaf Square



Golden Belt



Greater Durham Chamber of Commerce papers, oversize, David M. Rubenstein Rare Book & Manuscript Library, Duke University, Durham, North Carolina.

The way we were: Panoramic 1925 photo of downtown shows W.T. Blackwell and Company factory and American Tobacco Company manufacturing plant, left; the twin steeples of Duke Memorial Church and the Liggett & Myers plant in the center distance; and a cluster of buildings near the intersection of Main and Corcoran streets, including the Durham Loan & Trust Building, Washington Duke Hotel, and U.S. post office.

swaths of downtown were vacant and in disrepair. It seemed the only thing that earned downtown Durham headlines in those days was its high crime rate.

The site Brinegar had chosen for his company was the granddaddy of those broken-down buildings, a decaying former American Tobacco cigarette factory that had been empty for more than a decade. Sandwiched between a car dealership and the then-eight-year-old Durham Bulls Athletic Park and just off the heavily traveled Durham Freeway, the warehouse was an unmistakable eyesore whose blight had become a symbol for downtown Durham's struggles. It sat close enough to the ball-

park that a particularly well-struck foul ball might shatter a warehouse window—not that many were left by the early 2000s. Its insides had been unattended for so long that when construction workers began gutting it, they found trees growing within the walls. In some places, the floors were covered ankle-deep with pigeon droppings.

If you've been away from Durham for a while, you very well might not believe what you see today at the American Tobacco complex. Eight years after its reopening, the former cigarette factory has become a poster child for mixed-use urban redevelopment, a sprawling, eye-catching collection of restaurants, bars, offices, and

shops that, along with several other new projects in the area that followed its lead, has brought about a stunning rebirth of Durham's core. In many of those renovated spaces, innovative new businesses are taking root, fueling Durham's surprising new standing as a vibrant, hip center of entrepreneurial activity. A burgeoning restaurant scene—once dominated by fried chicken and burgers—has caught the attention of critics at *The New York Times*, who last year placed Durham on a list of "41 Places to Go in 2011." (Locals point out with glee that Durham was mentioned right between Iraqi Kurdistan and Kosovo.)

In less than a decade, downtown Durham has turned from a place best avoided at night to a destination where growing numbers of people flock to work, eat, or take in a game or a concert.

But this renaissance didn't come easily.

CIVIL COEXISTENCE

When Mike Schoenfeld '84 arrived at Duke as a student in 1980, Durham was a small, sleepy Southern city where Duke happened to be located. The city ran on tobacco; its downtown infrastructure of factories and warehouses churned out Pall Mall, Lucky Strike, and Chesterfield cigarettes, fueling the city's economy and filling its air with the wafting smell of processed tobacco. But the lives of Durham's mostly middle-class residents and Duke students rarely intersected. Students might occasionally mingle with residents over barbecue at Bullock's or fried chicken at Pete Rinaldi's. Hartman's Steakhouse on Geer Street was long a popular haunt. But when they sought entertainment, they tended to venture out of town, remembering Schoenfeld, now Duke's vice president for public affairs and government relations.

"The idea of off-campus fun was driving to Chapel Hill, which actually felt like a college town," he says. "You lived in Durham,

lived in Durham and participated in its civic life. And there were small-scale efforts at town/gown partnerships. In the 1940s, for example, Duke Chapel helped residents of East Durham after a cotton mill went belly up. Two decades later, medical students set up a clinic in Edgemont, one of Durham's decaying neighborhoods.

But institutionally, Duke largely kept to itself, recalls Jim Wise '70, a Raleigh *News*

body saw a particular reason for the university as such to get involved."

The collapse of the city's tobacco industry underscored that separateness. In the 1990s, as Duke's star was rising, Durham's was falling. American Tobacco pulled out of the city in 1987. Liggett & Myers followed in 2000, leaving several square miles of downtown virtually dormant. Shops pulled out of downtown and headed for the suburbs.

Office buildings went unrented. Downtown began to feel like a ghost town.

In 1996, Duke formed the Duke-Durham Neighborhood Partnership, a flagship initiative of then-President Nannerl O. Keohane to formalize the university's stake in Durham. Now run by Duke's Office of Durham and Regional Affairs, the partnership has sparked programs to aid local schools, improve access to health care, and boost home ownership in the twelve neighborhoods surrounding the campus.

Around the same time, interest in downtown renewal was gathering steam. Duke leased space in West Village, an office, retail, and housing project just off the downtown loop that was championed by former basketball players Christian Laettner '92 and Brian Davis '92. Jim Goodman, president of Raleigh-based Capitol Broadcasting, built Diamond View, an office building overlooking the Durham Bulls ballpark. But Goodman had his eyes on a bigger prize—the American Tobacco complex across the street.



Revival: The renovated American Tobacco Campus now features restaurants, an amphitheater, offices, and "Bull River," a quarter-mile-long river walk.

If you've been away from Durham for a while, you very well might not believe what you see today at the American Tobacco complex.

but there was relatively little to make you feel like you were in a city."

That's how it was for much of Duke's history. While the university had a mostly friendly relationship with its host city, it was a relatively separate coexistence. Of course, many faculty and staff members

& *Observer* reporter who has written three books about Durham and its history. "Duke was pretty much its own place," he says. "Individual faculty or staff members would get involved, join the Kiwanis Club or run for city council, or get involved with the public library or the choral society. But no-

Initially, many were skeptical of Goodman's plan. "We finally realized this was the one good shot to get something going

Downtown bound: American Tobacco Campus' "On the Lawn" series draws crowds for live music, movies, dance performances, and festivals.



NEW:

Durham Station: Opened in July 2009 in the historic Walker Warehouse to serve as a transportation port for the area. Led to the creation of the fare-

free Bull City Connector, which connects downtown, Duke, and Ninth Street. (601 W. Main St.)

Durham Farmers' Market: Relocated in 2006 to the pavilion at Central Park on Foster Street, the market—with its more than 60 vendors—is open every Saturday. (501 Foster St.)

Durham Bulls Athletic Park: The ballpark has undergone a series of on-field and structural renovations since its inaugural game in 1995 and now has seating-capacity for 10,000. It will host the 2012 Triple-A National Championship Game. (409 Blackwell St.)

Durham Performing Arts Center: The 2,800-seat theater was opened in 2008 and is host to Broadway productions, stand-up comedy, and come summertime, the American Dance Festival. (123 Vivian St.)



Upgrade: The Reed Building, part of the American Tobacco Campus, now houses the Cuban Revolution restaurant and national advertising agency McKinney.



DUKE CENTRAL CAMPUS

Looking up: The historic Lucky Strike water tower serves as a focal point for the American Tobacco Campus.

FOOD:

Chubby's Tacos: Authentic Mexican restaurant uses local and organic ingredients. The menu includes a tilapia burrito that will change your life. (748 Ninth St.)

Ox & Rabbit: Opened in 2008 in the storefront where McDonald's Drugstore used to be, this old-fashioned soda and sundries shop will concoct a milkshake, soda, malt, or egg crème while you explore the shop full of quirky housewares, souvenirs, and books. (732 Ninth St.)

Parker and Otis: Part café, part gift shop, the busy market offers sandwiches, candy, and gourmet items with outdoor patio seating. (112 S. Duke St.)

Piedmont: Dedicated to local ingredients, this elegantly casual restaurant offers contemporary American cuisine from a menu that changes daily. (401 Foster St.)

Toast: Quirky and delicious Italian paninoteca, opened in 2007. Combines locally grown produce with meats and cheese imported from Italy. Voted Durham's favorite healthy meal in a 2011 survey by the Convention & Visitors Bureau. (345 W. Main St.)



Smith Warehouse: Former tobacco warehouse adjacent to Duke's East Campus was renovated in 2011 and now houses several Duke arts and humanities programs. (114 S. Buchanan Blvd.)

Brightleaf Square: Formerly a string of tobacco storage warehouses, Brightleaf has since been rededicated as a downtown district lined with restaurants and retailers. (N. Gregson St. between W. Main St. and W. Peabody St.)

West Village: The first redevelopment project in downtown Durham's revitalization, the complex is home to office space, retailers, and apartments. (N. Duke St. between W. Morgan St. and Fernway Ave.)

American Tobacco Campus: It lay dormant for many years after the departure of the tobacco companies. Now, following serious renovations that ended in 2004, it has been reopened as a downtown district to dine, shop, and work. (Blackwell St. between Wallard St. and W. Pettigrew St.)

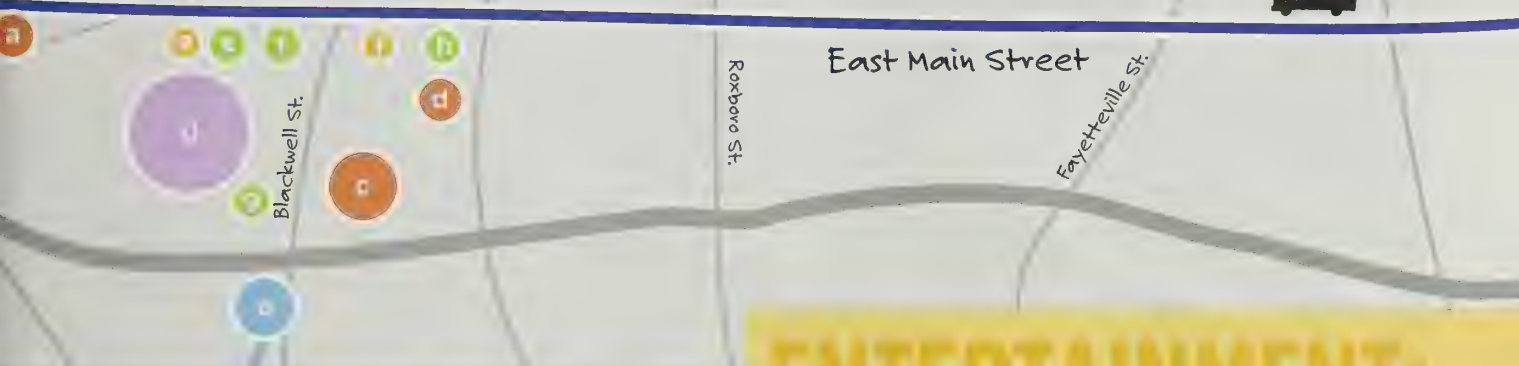
American Tobacco Trail: Newly constructed twenty-two-mile bicycle trail turns an empty rail bed and a tobacco legacy into a place for healthy exercise. (7616 Fayetteville Rd.)

Scrap Exchange: Recycling center where locals scavenge materials discarded by

industrial plants. Popular with artists, teachers, and theater groups looking to make creative reuse of empty fire extinguishers and yards of double-knit polyester.



Ben Casey and American Tobacco
Something old, something new: American Tobacco Campus' Washington Building was in a state of severe disrepair, including collapsed roofs in spaces once used to store tobacco leaf.



Dame's Chicken & Waffles: Soul food mecca that pairs crispy chicken with crunchewy waffles (sweet potato is a fave) and schmears of sweet flavored butters. (317 W. Main St.)

Tyler's Taproom: Classic American bar/restaurant in the heart of the American Tobacco complex serves a selection of more than sixty craft and speciality import beers. (324 Blackwell St.)

Revolution: Chef Jim Anile's trendy restaurant focuses on culinary creativity, with TV monitors broadcasting kitchen action to the dining room. (107 W. Main St.)

Scratch: A friendly local bakery that specializes in artisan baking with a focus on pies, cakes, and custom desserts. (111 Orange St.)

Reliable Cheese Company: Cut-to-order cheese shop offers a selection of cheeses from small producers in the U.S. and Europe. They also sell sandwiches, charcuterie, bread, and speciality grocery items. (405 E. Chapel Hill St.)

Food Trucks: More than 45 swarm the area, popping up at locations throughout the city. Favorites include: Bulkogi Korean BBQ, OnlyBurger, and Parlez-vous Crepe. But to find one, you'll have to follow it on Twitter.

ENTERTAINMENT:

Manbites Dog Theater: Nonprofit theater company focuses on new and challenging theatrical events that nurture developing artists and entertainers. (703 Foster St.)

The Carolina Theatre: Presents live performances and thought-provoking film, including Oscar-nominated live-action shorts and animated short films. (309 W. Morgan St.)

Motorco: A short walk from the downtown area, this music hall and bar hosts live music and local events. (723 Riggsbee Ave.)

Fullsteam Brewery: Brewmeisters here strive to create a "distinctly Southern beer style" that celebrates the culinary and agricultural diversity and history of the region. (726 Riggsbee Ave.)

Whiskey: A private club/bar that offers speciality liquors, cocktails, and cigars. (347 W. Main St.)

The Pinhook: Popular music venue for local bands, excellent DJs, trivia nights, and low-key chilling out. (117 Main St.)

at American Tobacco—the big, ugly eyesore,” says Tallman Trask III, Duke’s executive vice president. “Duke isn’t going anywhere, and the deterioration of downtown was not beneficial to us.”

Duke couldn’t do much on its own, nor did it want to. The university preferred not to buy property outright because as a nonprofit it would be exempt from property taxes, meaning the city would lose the potential tax revenue from the space. And as much as its leaders agreed with the aims of redevelopment, Duke isn’t in the development business. “We don’t want downtown Durham to be downtown Duke,” says Scott Selig M.B.A. ’92, Duke’s associate vice president for capital assets. “That wouldn’t be interesting. We wanted an eclectic place with a broad economic base.”



Durham: Photographs by William B. Blythe



York Wilson



Durham Convention & Visitors Bureau

Culinary destinations: Durham boasts a wide range of eating options including Guglhupf Bakery, a growing fleet of food trucks, and the James Beard Award-winning Magnolia Grill, clockwise from top.

Ultimately, Duke agreed to lease 100,000 square feet at American Tobacco, but it waited to sign the lease until three for-profit companies had signed on for an equal share of space. That strategy proved helpful in convincing McKinney—which makes ads for national clients such as Nationwide insurance and Sherwin-Williams and gave birth to the Travelocity “Roaming Gnome”—to take the leap. McKinney CEO Brinegar says when employees raised concerns about safety, he pointed to Duke. “Duke can’t afford it being unsafe for its own people,” he told his workers. “They have to make it safe, or they have a big problem.”

McKinney soon was joined at American Tobacco by Glaxo and Compuware, a software company run by Peter Karmanos, who also owns the Carolina Hurricanes hockey team. Glaxo has since left, but McKinney and Compuware are still there, along with about sixty other ventures.

The rebirth of the American Tobacco campus may be the highest-profile redevelopment project in Durham, but it’s far from the only one. In the past decade, several other warehouses and rundown buildings have been rehabilitated, giving rise to dozens of new bars and restaurants and an explosion of downtown residential spaces.

The number of people who call downtown home has risen from just 200 in the mid-1990s to more than 1,500 today. Many live in retrofitted lofts that take advantage of the old tobacco warehouses’ quirky industrial architecture.

Duke’s footprint stretches through all this progress. In addition to West Village and American Tobacco, the university has 50,000 square feet of space at Brightleaf Square, a commercial development off Main Street, and houses 500 employees on six floors of the Durham Centre, a fifteen-story building across from the Carolina Theatre. In all, Duke now has at least

1,800 employees occupying more than 500,000 square feet of downtown space. Duke recently contracted to purchase its first downtown facility, the 114,000-square-foot Carmichael Building, where tobacco was once dried and stored.

"Duke became that credit-worthy client that let us get so many other projects going," says Bill Kalkhof, president of Downtown Durham Inc., a nonprofit that promotes area revitalization. "Duke has easily been one of the most influential players downtown and, in terms of leasing office space, the most influential."

The boom in office and residential space downtown has provided a foundation for new cultural and entertainment options, including the Durham Bulls Athletic Park, galleries and artist studios at the rehabbed

FOODIE HAVEN

Collard greens aren't hard to find in North Carolina. But for this billowy staple of the Southern dinner table to wind up on a plate served at Magnolia Grill, it must have a slight frosted purple tint to its otherwise green leaves. That's the telltale sign that the green has been exposed to cold.

"A lot of old-fashioned Southernistas believe collards become sweetest when ex-

going for it was geography. Get outside the city limits and you'll find a ring of active farms growing a wide range of fruits and vegetables. Magnolia's collard greens, for example, come from Brinkley Farms, a family farm eighteen miles north of Durham in Creedmoor. Barker developed a relationship with the farm over several years through the Carrboro Farmers' Market, where he shops for the restaurant's produce. (Brinkley also sells at the weekly

"You either like it or you don't, and those who like it don't care that other people don't. That's attractive to chefs."



markschuelerphoto.com/Durham Convention & Visitors Bureau

Locus for locavores: More than sixty local vendors sell produce, eggs, meat, cheese, and other items at the Durham Farmers Market.

Golden Belt textile mill, and the Durham Performing Arts Center, which opened in 2008 in a strikingly modern glass-walled building near the Bulls park. DPAC's 2,800-seat theater has become a magnet for Broadway shows and A-list performers, drawing a total audience of more than a million in its first three years. DPAC's 2011 attendance figures ranked fourth nationally among performing-arts centers.

There's something else important about all those DPAC showgoers—something just as important to Durham's renaissance as quirky postindustrial office space: *They're hungry.*

posed to frost," explains Ben Barker, chef and co-owner of the restaurant. "It accentuates the sugars in the greens."

Ben and Karen Barker opened Magnolia Grill in 1986 at the nadir of Durham's tobacco age. They set up shop in the old Wellspring Grocery, just down Ninth Street from the beer halls and sandwich shops that bordered East Campus. Their restaurant was different—fancy and pricey with a dedication to local ingredients. But it caught on, and the restaurant's success would help lay the groundwork for the city's food revolution.

One of the main things Durham had

farmers' market in Durham's Central Park.)

That chef-farmer relationship is an important aspect of the farm-to-fork movement, which emphasizes fresh, local foods produced sustainably. "It's not cheaper; in fact, it tends to be more expensive," Barker says of buying local. "But there's less waste, and you have an ongoing relationship with the person who planted the seed. And it tastes better."

That combination earned Ben Barker a James Beard Award in 2000 as Best Chef in the Southeast, a top honor in the restaurant industry and one indicator that the Durham food scene was on the rise. Three years later, Karen, the restaurant's pastry chef, won one. (Note: If the Barkers ever ask you over for dinner, accept.)

In 2006, *Gourmet* named Magnolia Grill one of the top fifty restaurants in the country. But the wealth was spreading. Young chefs, attracted by Durham's low rents and burgeoning food scene, flowed in. Magnolia itself turned into something of an incubator, training a number of chefs who went on to open their own kitchens. Now the city serves up everything from duck confit at a French bistro to beef tongue tacos from a takeout taqueria to Chinese dumplings and Korean barbecue from trucks that tweet their location each day.

"There's no pretentiousness in Durham," says Sam Poley, a former chef and current director of marketing and communications for the Durham Convention & Visitors Bureau. "You either like it or you don't, and those who like it don't care that other people don't. That's attractive to chefs."

Durham's rising foodie profile has not gone unnoticed. In 2008, *Bon Appétit* tabbed the Durham-Chapel Hill area "America's foodiest small town." *The New*

York Times also has written glowingly about Durham's food scene three times since 2010. One *Times* article from 2011 declared that from a former "ghost town... an exciting, unexpected food hub has emerged." Another quoted former co-owner of Pop's and current owner of Six Plates Wine Bar Matthew Beason, who reflected on the days a decade earlier when he drove to the airport to retrieve a weekly shipment of duck confit and pâté from New York. "Now, virtually every place in town makes its own," he said.

As a social issue, Durham residents take the farm-to-fork movement seriously, says Chris Reid, a contributor to *Carpe Durham*, a local food blog. If it was once a bonus for a restaurant to use local ingredients, it is now practically a requirement, Reid says.

"There's a lot of farmland within thirty miles, so the farm culture in North Carolina is helping fuel the revival," she says. "With



Vital signs: Durham Performing Arts Center, above; interior entranceway to artist studios in Golden Belt, below right

every restaurant that opens now, that has to be the focus. I think we expect it."

PERFECT TIMING

If, on a sun-splashed afternoon, you sneak out of work a little early for a cocktail or two at Tyler's Taproom in the American Tobacco complex, you might luck into some live music. Or maybe the hosts of the Durham Bulls radio show are talking baseball at its makeshift studio outside Tyler's front door. Or perhaps, if you beat the crowd, all you'll hear is the soft gurgling of the man-made stream that runs down the middle of the campus, twisting this way and that and looping under a pedes-





Batter up: Durham Bulls Athletic Park opened in 1995 and expanded to 10,000 seats for the 1998 season, the year the Bulls began playing in the Triple-A International League.

"I'm not sure the opportunity was really there before then."

Or perhaps since. Had the American Tobacco project come along in a rockier economic climate, like, say, today? "It couldn't have happened," his Duke colleague Selig says.

And the buildings themselves played a crucial role. American Tobacco is a complex of more than a dozen century-old buildings, all used at first to manufacture and store cigarettes. Flush with money at the turn of last century, American Tobacco built them to last, with strong construction and distinctive detailing. They're huge, wide, and for the most part rectangular—perfect spaces for myriad businesses.

"These buildings worked 100 years ago, they work now, and they'll probably work 100 years from now because they're big, open boxes," Selig says. "It couldn't have happened without the bones of buildings this well-built."

Once decrepit and dreary, this complex now buzzes with activity. You can get your hair cut, have a slice at the pizza joint, or learn to make a soufflé at a cooking class at the Art Institute. You can even get married there, at Bay 7, an all-purpose banquet hall sandwiched between the local public radio station and some offices.

Across the complex at McKinney, Brinegar remains pleased with his decision to relocate his advertising agency to Durham. The space has worked out nicely. The firm's 147 employees are spread out over two floors; their old offices in Raleigh had them splayed on five different floors. There, they had space for a single conference room. Now they have a dozen.

But there's something more that has changed since those first days in 2003.

"What we had ten years ago was determination, money, and opportunity."

trian bridge. The scene is both idyllic and urban, busy and serene. Overhead, the cigarette factory's original white water tower, 175 feet tall and still emblazoned "Lucky Strike," strikes a long shadow.

If you've been around Durham for any length of time, you still shake your head at the turnaround, considering how far this place has come from its ragged years of abandonment. The renaissance has been neither perfect nor complete. Downtown still has its share of vacant storefronts and dilapidated buildings, and too many city

residents suffer in poverty.

But the progress of the past decade was not an accident, nor was it a product of Duke's investment, Jim Goodman's vision, or the leap of faith taken by businesses such as McKinney. It was a confluence of factors, a three-legged stool of government action, business leadership, and grassroots activism, with each leg dependent on the others for support.

"What we had ten years ago was determination, money, and opportunity," says Trask, the Duke executive vice president.

When McKinney relocated, Brinegar was the only McKinney employee who lived in Durham, a sole believer in a brighter future ahead. Today, he's got company: About 100 of the company's employees now call Durham home. ■

Ferreri is a former reporter for the Durham Herald-Sun and the Raleigh News & Observer. He now writes for Duke's Office of News and Communications. This is his first story for Duke Magazine.





Bird-Brained

A sparrow's song may seem a simple melody, but it's actually the product of some pretty sophisticated brainwork. In fact, studying how birds sing may give us new insights about our own ability to speak, move, and think.

By Ashley Yeager

From a low branch of a towering oak in Duke Forest, a cardinal belts out his signature *cheer, cheer, cheer, tweeee*. There's a *twee-cha, cha-cha-cha, twee-cha-cha* from a well-camouflaged song sparrow and the *tu-a-wee-wu-we* of a brown-breasted bluebird. The forest is alive with springtime conversation, and although it's early morning, it feels a bit like a Saturday night at a bar. All the guys are puffing out their chests and rolling out their best pick-up lines.

nestling and is now a strong, intelligent adult with superior genetic traits—in other words, a perfect mate.

But there will soon be another bird with a story Peters finds even more interesting. As spring turns to summer in the woods and more male songbirds are born, somewhere in those branches a fledgling sparrow or finch will sit perfectly still in his nest. His black eyes blinking, he'll silently wait. And then, with his beak virtually closed, he'll whisper a note or two that he's heard from the birds around him. At first,

"Hey, baby, come check me out."

For all its cacophony of chirps and trills, the dawn performance is really like one big chorus of "Hey, baby, come check me out," according to Susan Peters, a behavioral biologist at Duke who studies animal communication. After studying songbirds for thirty years, Peters can hear the birds' biographies in their melodies. A clear, consistent song is a male songbird's way of saying he was fed well as a

the sounds will not be quite in tune with the rest of the chorus and instead come out as raspy chirrups and cheeps. But with practice, the juvenile bird will catch on.

"It's very sweet to watch a young male bird making its first attempts at song," Peters says. A musician herself who plays the piano and other instruments, she can relate to the trial-and-error frustration of learning how to perform a new melody.

© Glenn Benneyall/Canada Photo/Corbis

But as a scientist, she sees the bird's song—and the weeks-long process the birds must go through to master it—as a tool for understanding how complex behaviors like singing evolve.

And it's not just birds she's interested in. Peters is one of a growing number of scientists, including several at Duke, who think studying birds can help them understand how the human brain directs complicated tasks such as speech or movement, which may not be nearly as different from a finch learning to warble as once believed.

As scientists have learned more about the regions of a bird's brain involved in singing, they have made surprising connections to the mechanisms humans use to speak and move. There is now promise that birds might offer a model for figuring out human neurological diseases like Huntington's and Parkinson's.

The idea that there are parallels between birdsong and human speech began to emerge in the 1960s. Among the first scientists to make the connection was Peter Marler, a behavioral biologist who studied

birdsongs first at the University of California at Berkeley and then at Rockefeller University in New York. By observing and recording sparrows as they learned to sing, Marler showed that songbirds picked up the unique melodies of their species at a critical stage early in life and that, like humans, they depended on hearing themselves sing to get better. Those features of bird communication, Marler wrote in a 1970 article for *American Scientist*, "may in turn serve to remind us that human language is a biological phenomenon with an evolutionary history."

Angry Birds

Birds, like humans, don't like others treading on their turf. At first sight of an intruder, most birds will squawk and flap their wings, a warning that, if unheeded, is usually followed by attack. But fighting can be costly, even deadly. What happens in those tense moments before a bird decides enough is enough?

To find out, Rindy Anderson, a postdoctoral researcher in biologist Steve Nowicki's lab, is using a robotic sparrow to play the role of the interloper. Designed by Duke engineering undergraduates and a local taxidermist, Robo-Sparrow sits on the boundary of a male swamp sparrow's turf and flicks its wings while a sparrow song plays through

a nearby speaker. To a sparrow, this is a defiant act of aggression that demands a response.

From observing sparrows in the field, Anderson has found the interactions often start with songs. A defensive bird will repeat an interloper's song, as if to say, "I heard you, and I am paying attention to what you are doing." This is what scientists call song matching, and it can go back and forth until one bird finally flings down the gauntlet.

In experiments with Robo-Sparrow, Anderson has noted that just before attacking, sparrows quickly flick one or both wings several times. The wave is a deliberate signal intended to frighten the trespasser away—sort of the bird equivalent of humans flipping the bird. If that's not enough, the defensive bird will try a soft song, as if to say, "C'mon, man, don't make me do this."

Of course the birds aren't actually thinking those things. It's more likely their brains work like computers, responding in specific ways to specific stimuli. But with the help of Robo-Sparrow, researchers are figuring out the complex vocabulary of these conversations.

—Ashley Yeager

Robo-calls: Designed by Duke students, the robotic sparrow encroaches on another bird's turf—and often pays the price.

In the mid-1970s, Marler hired Susan Peters to his lab at Rockefeller's Field Research Center in Millbrook, New York. Together, they began to explore how baby sparrows learned the chirps and trills that characterize their species' song. Through careful experiments, they eventually traced, note by note, the birds' musical progression from those early weak warbles, called subsong, to their first clear imitations of melodies, and finally to mastery and repetition of their species' song. As Marler had anticipated, the birds' pattern of development was much like the progression a human infant follows from babble to individual words to sentences.

Marler and Peters pursued the birds' song progression for nearly a decade, by which time a new biologist named Steve Nowicki had joined the lab. Peters and Nowicki began collaborating on birdsong studies and then married in 1986. The couple moved to Duke in 1989, and Nowicki is now a professor of biology, psychology, and neuroscience, as well as dean of undergraduate education. They also brought with them a collection of swamp and song sparrows they had captured in New York.

Today, Peters houses dozens of new sparrows in the Biological Sciences Building. The room where the birds live is painted white, with a long row of wire cages along one wall. Each cage holds a single sparrow, along with a perch, a bath, and a trough of seeds. The room is sealed so Peters can control light and temperature, precisely simulating the seasonal changes in daylight and climate. On a day this past winter, the space is strangely silent, except for a few chirps and squawks and the hum of a heater. There are no songs.

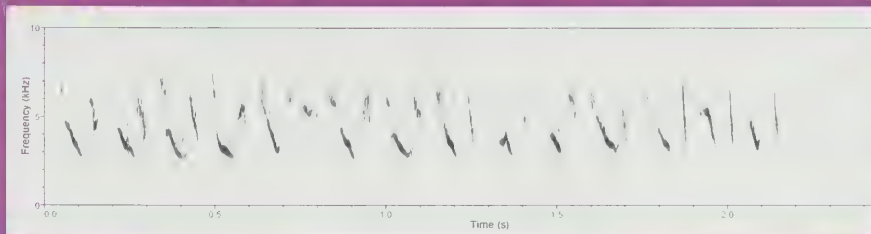
Songbirds typically don't sing in the winter, Peters explains as she reaches into a cage and tries to trap a swamp sparrow, an adult male, in her hand. The bird dances just out of reach. She focuses on the bird for a moment and then gingerly corners it, closing her palm around his brown-feathered body. The bird cocks his head from side to side, surveying his situation. His black eyes blink quickly, but he remains calm. Like all males, his chest is plain gray, and he has a cap of streaked head feathers that turn brownish red in spring—or, in this case, when Peters lengthens the days and warms the air in the room to simulate the season. The longer days, she says, initiate changes in the birds' brains, which spur them to sing.

During her career Peters has logged thousands of hours listening to sparrows

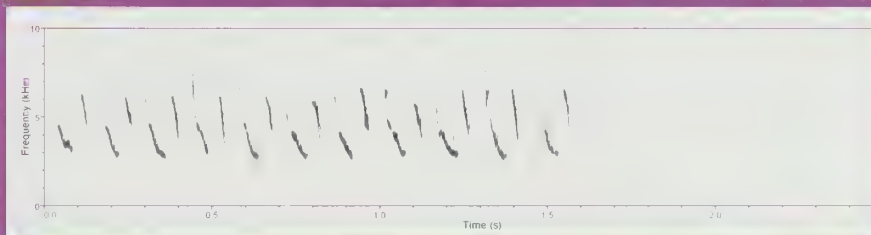
Catching a Tune

For a young swamp sparrow, mastering his species' song (shown in the sound spectrograph at the bottom) takes practice. The top three graphs show the same sparrow attempting the song—and getting better with age.

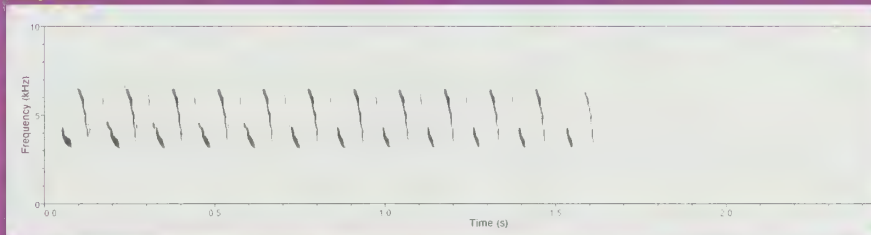
March 4



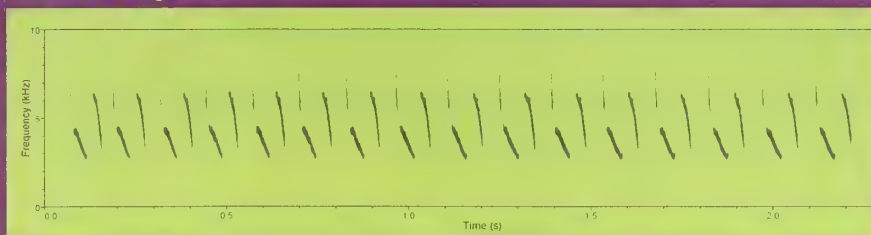
March 11



May 20



Mastered Song



and other songbirds compose their melodies. These days most of the analysis is done with the aid of software programs that translate recorded birdsongs into sound spectrographs, which create a visual readout of the birds' songs. Individual notes appear as tiny lines on a horizontal scale, with the length and height of the

lines representing the duration and pitch of the note. It's clear from looking at a few of these graphic representations that there's a lot going on in a bird's song that human ears often don't appreciate. Even the shortest bit of sparrow song reveals multiple notes and precisely timed pauses.

But to a bird, those subtleties make all

the difference. Swamp sparrows, for example, sing two-second trills comprising identical syllables, each with between two and five notes. In 1989, Peter Marler and colleagues showed that male sparrows perceive even slight alterations in the length and arrangement of the notes. When the birds hear songs that sound different than what they have learned, they get defensive,

identify regions of a songbird brain associated with learning and producing songs. Jarvis and his collaborators made a significant connection between human speech and birdsong in 2004 when they identified a gene called *FOXP2*—one of the key genes in human speech—in songbirds, parrots, and hummingbirds. In humans, mutations to the *FOXP2* gene result in se-

the song-producing regions, where it had a role in making body movements, such as when a bird hops or flaps its wings. The fact that the gene handles both duties suggests that the areas of a songbird's brain involved in singing evolved from areas controlling movement.

For Jarvis, a professionally trained dancer, the connection of song and motion

“The notion with song learning and spoken language is that the two are something ephemeral. They’re believed to be special and therefore different from anything else. So the minute you call them a motor behavior like learning to walk, or fly, that’s sacrilege.”

as if an intruder has invaded their space. To look tough, the sparrows puff out their chest feathers and flap their wings (see story, page 36).

In the first few weeks of life, young birds are listening and making a “mental image” of the sounds they hear, Peters says. At the same time, they are developing seven regions in their brains that they use to sing. Connections in and among those regions will allow a bird to master coordinating his beak movements and vocal tracts to make specific sounds. But this takes practice and maturation. On her computer, Peters pulls up two spectrographs from the same sparrow, one when he was nine months old and one from a month later. The improvement is obvious, with the notes and tune becoming more coherent and consistent as the bird matures.

The similarity to a human infant’s language development—from listening to babble to words and phrases—isn’t completely unexpected. Because the basic organization of the vertebrate brain has been well-conserved by evolution, the brains of birds and humans are in some ways quite similar. What is surprising is how far the similarities run. Scientists have found that some birds can solve problems by insight and learn by example, just as human children do. Birds can learn to use tools and even do basic math. Such recent discoveries have guided neurobiologists to probe deeper, exploring the pathways birds and humans use to process information.

One such scientist is Erich Jarvis, an associate professor of neurobiology at Duke. Jarvis is another product of the Peter Marler family tree, having studied under Marler’s former graduate student Fernando Nottebohm, who was among the first to



Deep thinkers: Researchers now believe birds have a much greater capacity for complex thought.

vere impairments in the ability to learn to speak, and Jarvis expected it would play a similar role in a songbird’s ability to sing. And it does—in zebra finches, the gene turns on during the critical period for song learning, and when it is blocked, birds cannot accurately imitate their tutors.

Jarvis also has studied a gene called *egr1*, which too is active in all seven regions of the brain associated with singing. But he was surprised to discover that the gene is turned on also in seven areas adjacent to

offers exciting possibilities. He imagines that the same pattern may exist in humans, which could be why, for example, we naturally move and gesture with our hands when we talk.

Carlos Botero, a former postdoctoral fellow at Duke and birdsong expert at the National Evolutionary Synthesis Center, believes Jarvis’ connection of movement, song, and speech is revolutionary, describing the theory as “kick-ass.” But not everyone is sold. Other neurobiologists call Jarvis’ model speculative and say it lacks enough evidence to be widely accepted.

The criticisms, Jarvis argues, stem from scientists’ preconceived ideas. “The notion with song learning and spoken language is that the two are something ephemeral. They’re believed to be special and therefore different from anything else. So the minute you call them a motor behavior like learning to walk, or fly, that’s sacrilege.”

Jarvis recently has identified other genes that have mutated over thousands of years to allow song-learning birds to control vocalization. He suggests that those same genes may contribute to our own ability to coordinate our mouth, larynx, and lung muscles to speak. “My prediction has been that if the behaviors are similar and the brain pathways are similar, then the underlying genes may be similar, and we are beginning to find that this is the case,” he says.

Based on the commonalities of these genes, Jarvis believes he can take them from the brains of a learning species, such as zebra finches, and insert them into the brains of animals like pigeons or mice that do not have the ability to make intricate songs. In the lab, he will try to get those genes working so that they stimulate new connections in the non-song-producing an-

Zina Dersky, National Science Foundation

imal's brain. Essentially, he will try to develop a song-producing system in a species that doesn't have one. And even if the experiment produces only a feeble note, it will provide compelling evidence for a link between song and muscle movement.

A striking example of why that connection could be important comes from a lab just down the hall from Jarvis' office in the Bryan Research Building. There, neuroscientist Richard Mooney is exploring whether understanding birdsongs—and the brain circuitry behind them—can give scientists new insights about human neurological disorders like Huntington's and Parkinson's diseases.

Mooney, the George Barth Geller Professor of neurobiology, has studied the brains of songbirds for almost thirty years to try to understand the neurological roots of learning. In 2009, he helped Susan Peters and Steve Nowicki establish how swamp sparrows tell the difference between correct and altered versions of their songs by placing electrodes into a song-producing region of the birds' brains known as the high vocal center, or HVC. The team then recorded the birds' brain activity and behavior as the sparrows listened to altered versions of their trills. The research showed that certain cells in the HVC were highly attuned to slight differences in the length of song notes, firing only when the notes fell within a narrow range of familiarity. This same pattern of recognition, called categorical perception, helps humans recognize subtle sounds in language, such as the difference between "ba" and "pa." The Duke research was the first to explain the brain activity that underlies that categorical perception in birds.

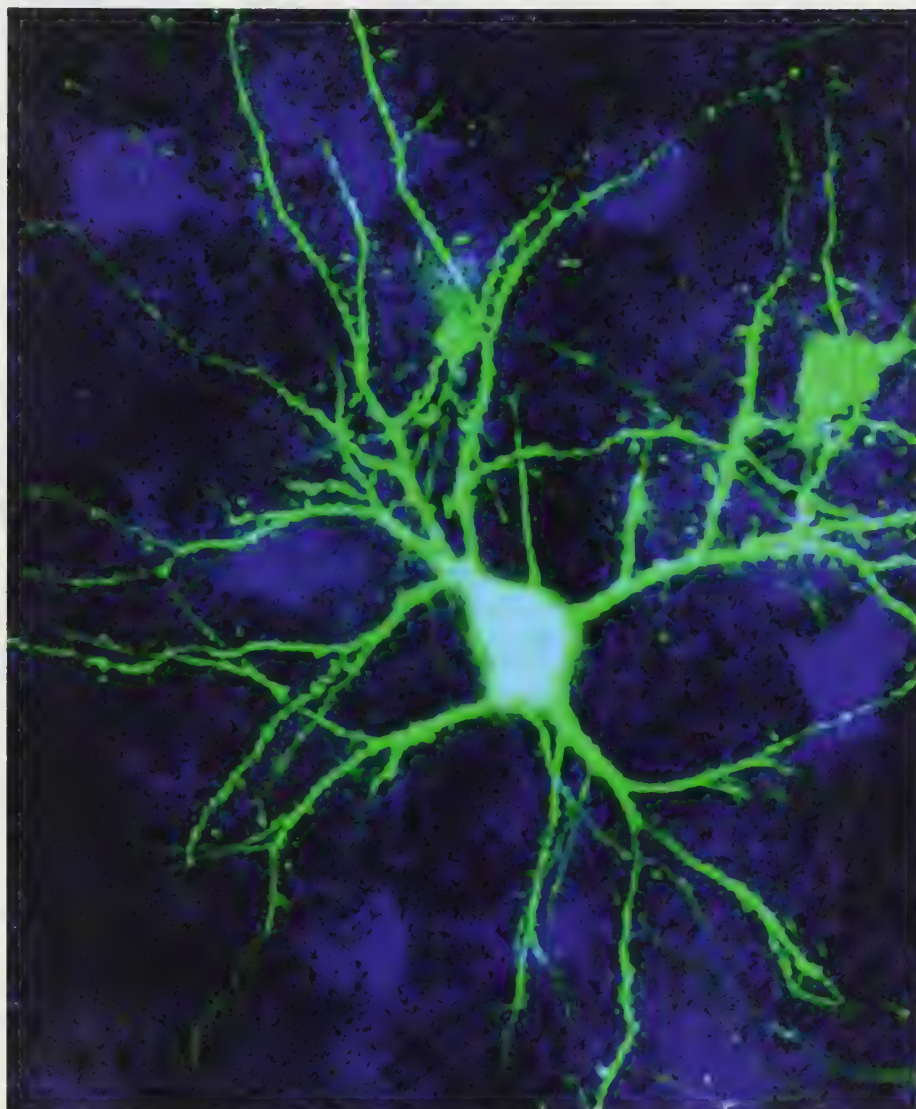
Now, Mooney is focusing on another song-producing region, located in a part of the brain known as the basal ganglia. In both birds and humans, the basal ganglia sit behind the eyes, deep within the tissues of the head. Neuroscientists think the brain cells in this area control voluntary movement of limbs and eyes, cognitive thinking, and possibly emotions. Yet, even subtle damage to cells there can severely impair movement, as in the case of Parkinson's and Huntington's diseases.

Scientists are trying to gain a better understanding of how these diseases cause their effects, but researchers are limited by their ability to replicate the disorders in the lab. There are mouse models, in which the animals exhibit the same physical symptoms as patients with Parkinson's or Huntington's, including lack of coordina-

tion and unsteady balance while moving around. "You can tell that the behavior is abnormal, just like you can tell a person with a given neurological disorder is behaving abnormally," says Mooney. "But it's harder to know what's wrong with the brain, and even more difficult to identify how damage to specific brain circuits produces certain motor abnormalities."

cells involved with learning songs, they should be able to trace learning problems to changes in specific brain cells. That, in turn, could suggest how the gene, when activated in our own basal ganglia, affects humans with the neurological disease.

Mooney cautions that what happens in a bird's brain is not exactly parallel to what happens in the brain of a human. But he



Song on the brain: Using a protein to make nerve cells glow bright green under a laser-powered microscope, scientists are able to observe how the structure of nerve cells in a living songbird's brain change as the bird learns to sing.

Mooney thinks songbirds might offer a better model. In his next research project, he plans to insert a gene thought to cause Huntington's disease in the brains of zebra finches, activating it in a part of the basal ganglia known to be important in song learning. His research group will then observe how the gene affects the juvenile birds' ability to learn a new song or repeat ones they have already learned. Because the team already knows the specific brain

is confident that the rich understanding scientists have gained in recent years about birds and their songs will ultimately benefit the understanding of our own minds, a revelation that adds a sweet harmony to all those tweets, chirps, and pick-up lines we hear each day at dawn. ■

Yeager is a science writer for the Duke Office of News and Communications. This is her first story for Duke Magazine.



Admission: Impossible?

By Robert J. Bliwise

Anxiety is in the air. Or certainly in cyberspace.

In early February, the Duke thread on a popular website for college applicants, College Confidential, was active with expressions of uncertainty. Hey, someone posted, I have a high-school GPA around 4.3, performed in nine theater productions, won five awards for French, produced a documentary on homelessness, tutored in calculus, and swam on the varsity team for a year. "I know that Duke is very hard to get into and my chances aren't great, but I was just wondering if you thought I could get in!"

A second prospect was drawn to Duke because "I loved their science labs, and one of the professors there influenced me to explore a new interest in a specific chemistry field. That, and the fact that their 3-D room is pretty awesome." Another simply observed that "waiting till April"—the traditional time for notifying applicants—"is gonna kill me!"

In their earnestness, their nervousness, and their accomplishments, these would seem to be—as *New York Times* contributor James Atlas put it this past fall—"Super People." He wondered, "Has our hysterically competitive, education-obsessed society finally outdone itself in its tireless efforts to produce winners whose abilities are literally off the charts?...My contemporaries love to talk about how they would have been turned down by the schools they attended if they were applying today. This is no illusion."

The rampant anxiety around admission to Duke is grounded in some sobering numbers. Applications for the Class of 2016 reached yet another record—around 31,600, up 6 percent from the previous year, following three years when applications surged by a total of 46 percent. The percentage of regular-decision applicants accepted a year ago was about 13 percent; the figure for this year is bound to be even lower.

According to Christoph Guttentag, dean of undergraduate admissions, a bigger applicant pool reflects a widely felt necessity: Students need to be hedging their bets. "When counselors could predict what colleges a student had a reasonable chance of being admitted to, a good chance of being admitted to, a slim chance of being admitted to—as long as they understood the landscape, they could feel confident. A student would apply to six or eight colleges and everything would work out well."

Now, he says, for applicants aiming to scale the heights of higher education, the

landscape is more uncertain. In recent years, most of the elite schools have seen application-pool increases that mirror Duke's (though notably for schools in the Northeast, those numbers dropped or leveled off this year). "The more selective a college becomes, the harder it is to predict the particular combination of qualities that's going to make someone competitive or appealing."

Student anxiety is a theme that's familiar to Mark Sklarow, executive director of the Independent Educational Consultants Association. It's a factor, he says, that helps explain the explosive growth of the profession



Not quite—but in today's hypercompetitive environment, it takes something special to stand out.



of educational consultants, who work to guide high-school students through the college-admissions thickets. (Another factor, he says, is that high-school counselors are able to spend an average of just thirty-eight minutes a year with their assigned students.) He thinks the membership will double in the next five years from the current roster of 1,000 to meet a growing demand. According to a study by Lipman Hearne, a major marketing and communications firm, 26 percent of high-achieving

In 1997, Duke received 13,950 applications for its freshman class. In 2012, 31,600 students applied—an increase of 127 percent.

students hire a consultant in their college-application process.

"It's absolutely true that it's no longer painful to apply to colleges," Sklarow says. "When I was going through the process, you had to worry about using Wite-Out on your form. Every college was asking for dif-

ferent applicant information. And an essay topic for one college wouldn't work for another place. But even as it's gotten easier to apply, the process seems more and more opaque. You just can't figure out who is

going to be accepted and who won't be." And that uncertainty, he says, has fed the phenomenon of multiple applications.

Echoing Guttentag's observation, Sklarow says, "I've heard consultants talk about advising students to apply to five or six schools. And then they learn that the number is something like twenty. The attitude of the student or the parent is, 'We thought we needed to apply everywhere that seems like a good match, because there's no way of knowing what might happen in the competition.' For a kid who gets just one shot as a college applicant, I can understand how anxiety takes over."

One big contributor to the application surge at Duke is California, now the most-represented state in the current freshman class, with 191 students. Some of the California-based interest, in Guttentag's view, has to do with California's budget woes and the consequent decline in state support for the University of California system: Among other impacts, the cutbacks mean larger class sizes, fewer offerings, and higher tuition. (Guttentag earned his undergraduate degree from UC-Santa Barbara.)

Martin Walsh, a counselor at the Harker School in San Jose who formerly worked in admissions at Stanford University, points to one local indication of Duke's popularity: In 2008, Harker, which draws many first-generation American children of Silicon

Refresh, Repeat

Gone are the days of admissions decisions arriving in the U.S. mail—and the resulting "thick envelope/thin envelope" angst. Now Duke makes admissions decisions available through a secure online connection in mid-December (for early-decision applicants) or late March (for the rest). In 2010, for example, **7,728** admission decisions were viewed within ten minutes of posting; **19,961** decisions—covering 85 percent of the applicant pool—had been viewed by 8:30 the following morning, proving one of the few qualities Duke applicants don't possess is patience.



Valley workers, produced eight applications for Duke. The number for last fall's freshman class was fifty-seven—about one-third of the graduating class. Fifteen were admitted to Duke and three attended.

UC-Berkeley, about a forty-five minute drive from Harker, exerts a significant pull; despite its deepening California connection, Duke often loses out to Stanford University, along with Harvard, Yale, and Princeton. It does well against Cornell, Dartmouth, Columbia, Brown, and Georgetown. Guttentag notes that a higher percentage of Duke applicants now than in the past are looking at Stanford and MIT along with the Ivies, particularly the familiar "HYP" threesome. Duke's yield rate—the rate at which accepted students attend Duke—has remained fairly steady, meaning, he says, that "we are holding our own against tougher and tougher competition."

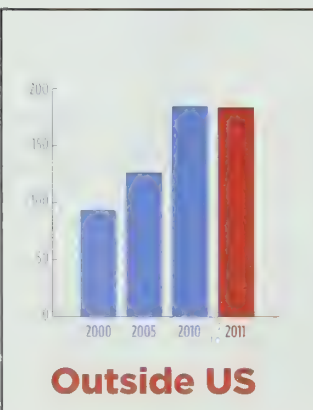
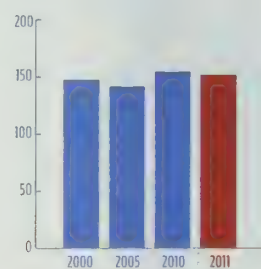
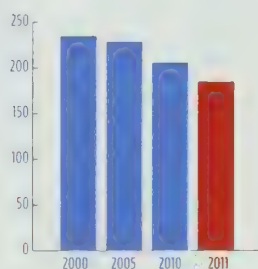
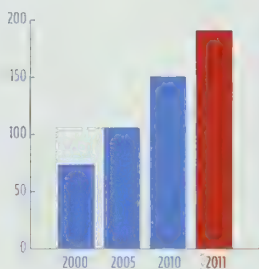
Walsh says the growth in student interest

testifies in part to the efforts of Duke's regional admissions officer, Samuel Carpenter, and his ability to "make it clear to our students and their parents what Duke has to offer." On a visit to Duke last spring, Walsh looked up the Duke-attending alumni of Harker to learn about those offerings more directly. "To a person, they were all enjoying their experience. They present Duke as a place with outstanding academic programs coupled with a vibrant student life," he says. "They haven't been watching Duke forever. They haven't been wearing Duke T-shirts since the eighth grade." Once on campus, though, they're drawn into a sort of Duke energy field. Among the Duke-based Harker graduates he tracked down was a pre-med student. She was "thrilled" with her academic experience, Walsh recalls, and also talked about painting her face blue and white for a men's basketball game.

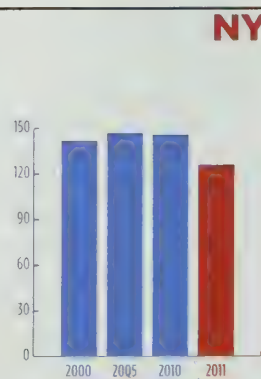
Even as the numbers from California and elsewhere have changed in recent years, the

Where are Duke Students From?

Top States of Enrolled Students



Outside US



FL

process hasn't, at least in its basic contours. The majority of applications are read twice, initially by a so-called first reader, an outsider hired and trained by the admissions office. Applicants are rated on a scale of one to five on six factors: the student's course selection in high school, grades earned, standardized test scores, school-based recommendations and the alumni interview report, extracurricular activities and accomplishments, and the application essay.

One of Guttentag's veteran readers, now in her fifteenth year, is Lynn Tocci; during the height of the reading period, in January and February, she's sifting through application materials thirty to thirty-five hours a week. "The qualities that I look for in a potential Duke student have remained essentially the same," she says. "That is, intellectual curiosity, a willingness to step out of the comfort zone and try interesting things. Increasingly, kids are presenting a rigorous curriculum and high test scores, so I want to see those intangible qualities that make a Duke student: What are the signs of the quality of their character, what will they do with the enormous academic opportunities at Duke, what kind of impact are they likely to make at Duke?"

She adds, "I'm a softie for kids in tough circumstances, kids who are overcoming adversity and who are reaching far from where they began in setting their sights on to Duke."

Tocci and her fellow first readers will hand over applications to an admissions staff member responsible for some section of the country (or the world). The regional officers—who spend much of the fall on the road—have a good sense of a particular region, the high schools that fall within it, and individual school counselors. They'll go through the reader evaluations, assign their own set of ratings, and designate some as clear admits or denies, sending those on to Guttentag or his associate dean to be "auto-admitted" or "auto-denied."

Guttentag estimates that the top 5 percent and the bottom half of the applicant pool are handled this way. "The strongest applicants and the less competitive or the less compelling ones are relatively easy to identify," he says. "Almost all of the stu-

dents who apply to Duke are qualified [to be admitted]. Almost all of the students who apply to Duke, if we admitted them, could move through this institution—academically, socially, and in all of the ways that a person is part of this community—with ease."



Percent of high-school valedictorians who were admitted (2011)

.....
"What it comes down to is figuring out what the student has accomplished within the context of the opportunities and the challenges that he or she has faced."

When the decision is not simple or straightforward, "you have multiple reads," he says. "That's when we talk about them in Admissions Committee," the group of admissions officers assembled to make the fine-tuned distinctions among strong candidates. "Sometimes we talk about them after Admissions Committee and review them again."

For the current admissions cycle, Guttentag and his colleagues have recalibrated the ratings system. That's because the pool has become stronger and not just larger: In the current freshman class, a third of the students who took the SAT scored between 1500 and 1600.

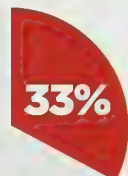
For that same class, 1,914 high-school valedictorians applied; Duke admitted just 29 percent. "We were at the point where over half of the applicants received our highest rating in terms of the strength of the curriculum," Guttentag says.

The top strength-of-curriculum rating now hinges on "a particularly strong group of courses over several years, a curriculum that is unusually challenging even among students applying to Duke," Guttentag says. "The kind of curriculum most applicants have is completely adequate. We just felt the need to make a further distinction at the top of the range." He and his colleagues made a similar adjustment to recognize which applicants clearly have the strongest grades in their class. (More than half of the applicants aren't assigned a rank in class by their schools.) Getting the top rating isn't a requirement to be admitted—far from it—but, says Guttentag, "we wanted to understand our applicants better within

the context of their schools and the pool as a whole."

November is a traditional time for some sessions of the Admissions Committee. The November gatherings are geared to early-decision candidates, those who commit themselves to attending Duke if they're accepted. Regular-decision candidates go before the committee in early March. Guttentag and about a half-dozen colleagues gather over bagels, muffins, and endless coffee. The conference room is assaulted by the inevitable autumnal leaf-blowing, leading Guttentag to joke, "Thank goodness no one is going to overhear us."

One thing that's clear is that the admissions staff members bore down deeply into the applications. With one of the first they're considering, Guttentag remarks, "Why did she hit the ball out of the park earlier in high school, and then get nothing but Bs and B-plusers? She either maxed out with her ability or the work has gotten harder." With a second candidate, the conversation moves on to the significance of a student's invitation to the junior nationals of a performance competition—essentially "the junior-varsity equivalent," as an admissions officer comments—and not the senior nationals ("the competition for grown-ups"). There's discussion around some of the application-essay phrasing—for example, "My school is as heterogeneous as milk." Guttentag observes, "I read a lot of essays that are polished to within an inch of their lives. I always smile when I read an essay that's a little less polished, and a little more insightful."



Percent of enrolled freshmen with combined critical reading and math SAT scores between 1500 and 1600 (2011)

.....
"The more selective a college becomes, the harder it is to predict the particular combination of qualities that's going to make someone competitive or appealing."

The admissions group also engages with a few cases of disciplinary problems in high school. There are issues having to do with alcohol and drugs and one with misrepresenting himself online. Did the student learn from the experience, they ask, or is he trying to escape responsibility?

Guttentag and his colleagues spend a lot of conversation time on unusual paths taken. One applicant gets attention for having worked as a volunteer at an injured-horse ranch.

Another draws the comment, "A nice kid, but there's little impact"; a third is described as "balanced but bland." A fourth is treated with enthusiasm for having

bounced back from family hardship at “a school with lots of privilege,” as the regional officer describes it. As someone else’s transcript and recommendations are projected from Guttentag’s laptop onto a conference-room screen, he comments, “Something that Duke students like in their classmates is that they all do interesting things. They all bring different things to the table.” That metaphorical table comes up a lot in their deliberations.

Widely distributed honors, such as National Honor Society membership and National Merit Semifinalist status, are generally passed over without comment. So are the usual leadership roles. “Every yearbook needs an editor-in-chief, every

team needs a captain, every organization needs a president,” Guttentag says. “But who has been a mover and shaker? Who has made a difference? And you can have leadership and impact without being in a leadership position. We sometimes use the term ‘bridge builder,’ a person who does a great job of bringing people together, of creating a community. And there’s the student who’s fully engaged in an enterprise, the student who’s run with an idea, who’s really sunk his teeth into something.”

In their November discussions, Guttentag and his colleagues are sensitive both to what’s in the application and what isn’t there. Teacher recommendations can be especially revealing in that regard. “I love

reading between the lines,” Guttentag remarks over a discussion around one applicant. It may be that a teacher is too pressed for time to say much about a student. Or it may be that there’s not much to be said. The committee looks at someone from a competitive high school where 90 percent go on to college. But her recommenders have little to offer on her behalf, beyond the statement that she’s a hard worker. Did she change the tone of the classroom, show herself to be intellectually ambitious, leave a mark on her school that signals her being a high-impact student? She’s deemed solid but not exciting.

Guttentag says that when he started in admissions, the model for the desirable student was the well-rounded student. “And then somehow in the last thirty years, the focus shifted. Everybody in admissions stopped talking about the well-rounded student and started talking about the well-rounded class.” For some reason, he says, playing the oboe took on the symbolic status as the particular gap in a class that a college looks to fill—a sought-after quality that is unknowable outside the committee room. “While we always have our eyes open for students who do one thing exceptionally or unusually well, the overwhelming majority of students at colleges like Duke are well-rounded. The energy of a place like Duke has to do with the ability and the inclination of the students not just to do one thing well, but to do many things well. And the truth is that most students applying to—and admitted to—schools like Duke are well-rounded. There just aren’t enough angular students out there to fill our classes.”

The “high-impact student” is a favorite Guttentag phrase; another is “distance traveled.” When he talks with guidance counselors, he sometimes mentions the example of two students from different schools, each of whom had taken six AP courses and had done well academically. Should you assume that they represent the same level of achievement? “In fact, one student was the first in her family who was planning to go to college. She was attending a school that offered only six AP courses. And the other student was attending a school that offered twenty AP courses. Not to diminish the accomplishment of the second, but in fact the same curriculum represented two different levels of accomplishment. All these things gain their meaning not in isolation but in the particular context of where a student is coming from.”

To those on the outside, “admissions is

Networking for Admissions

The Duke Alumni Association’s largest volunteer effort is the alumni admissions program, overseen by Carole LeVine ’86. It works with the Undergraduate Admissions Office in identifying, interviewing, and advocating for talented high-school students.

In the U.S., there are 208 regional alumni admissions advisory committees; internationally, there are thirty-five. For the current admissions cycle, the alumni network interviewed some 15,000 applicants—that’s half of the very sizable pool. Almost all of the interviews are face-to-face, though some are conducted by phone or through Skype. Particularly since prospects don’t receive admissions office interviews on campus, alumni interviews can provide a fuller picture of an individual candidate. At the same time, alumni interviews give the student the opportunity to learn about Duke from someone with good knowledge about—and strong enthusiasm for—the university.

LeVine’s portfolio includes advocating for the children and grandchildren of alumni, who are granted additional attention by admissions officers. Legacy status is taken into account in the process, because children of alumni bring a familiarity with and continuity of Duke traditions to the class. It is, though, just one of the many factors that admissions officers consider in reviewing an application.

For the current year, 972 alumni children and grandchildren applied—down from the previous year, when 1,034 applied, but up considerably from the 592 who vied for admission nine years ago. Because of the competitiveness of Duke’s applicant pool, most of those candidates will be disappointed. Still, legacies are admitted at about twice the overall rate.

.....

2003

**Alumni
Children
Applying**

**2012
972**

a black box,” Guttentag says. “People see the input, and people see the output. But they don’t see the process. Generally speaking, the academic credentials make a candidate competitive. But what makes a candidate compelling is a combination of the academic credentials and the rest of the application. And every case is different. In one case it might be an essay that’s the compelling part. In another case, it might be the extracurricular activities. In a third, it might be the letters of recommendation. What it comes down to is figuring out what the student has accomplished within the context of the opportunities and the challenges that he or she has faced.”

People are always asking, says Guttentag, if the size of the Duke pool will eventually stabilize. But increased selectivity doesn’t seem to be discouraging applications. Nor does economic uncertainty. “I remember early on in my career, when college costs were approaching \$25,000 and people were saying, ‘Nobody’s going to pay \$25,000.’ We don’t seem to have reached the magic number, in terms of costs. I was wondering when the economy went south whether that would affect applications in a negative way. And exactly the opposite happened.” To prospective students and their parents, he says, it seemed clear that the credential of an elite institution would play better in the job market—a variation on “the flight to quality.”

Guttentag muses that at some point, maybe the point of a single-digit admit rate, students will conclude, “Why bother?” He says, “In theory that might be the case. But I have a contradictory theory. When admit rates become so low that nobody fully expects to be admitted, the potential psychological cost of being denied diminishes. Then students feel freer to tell themselves, ‘What the heck? Why not apply? Maybe I’ll hit the lottery.’”

Guttentag says it may take a behavioral economist like Duke’s Dan Arieli to sort out the seeming paradox—why applicants vie for a place at Duke even as the competition intensifies. For his part, Arieli Ph.D. ’98 refers to the coolness factor, or the perceived value of a

1997

Percent Admitted

2011
13%

Duke affiliation. “It’s very natural to gravitate toward a group that we want to be part of,” he says. “If I have any choice in the matter, I want to pick only the smartest, best-looking, and most interesting people I can find.” The Duke “balance of academic and social life” speaks to the well-rounded student, he says. And that’s a cohort that’s easy to identify with.

Beyond that, he adds, exclusivity is automatically appealing. “If something is seen as more and more exclusive, the desire to be part of that gets higher and higher.”

Guttentag says if the university had infinite resources, he would be sure that every applicant was part of the alumni-interviewing network. And he would be sure that every applicant had no obstacles to making a campus visit: As deeply as candidates can probe Web resources, and as avidly as they can join online discussion groups around campus issues, there’s still no substitute for actually experiencing the place.

On an unseasonably and even unreasonably warm February afternoon, 150 Duke prospects and parents fill every seat in McClendon Auditorium next to the admissions office. Admissions officer Morgan Kirkland ’11, who covers South Carolina, Georgia, and Northern Florida, says that after being sequestered for weeks read-

“Almost all of the students who apply to Duke, if we admitted them, could move through this institution—academically, socially, and in all of the ways that a person is part of this community—with ease.”

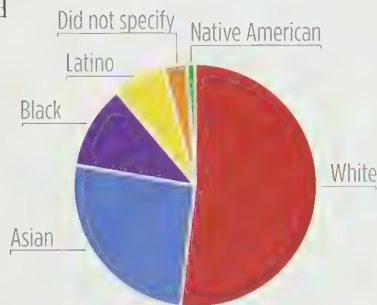
ing applications, she’s grateful for the “human contact.” She asks her audience to shout out where they come from: Pennsylvania, Massachusetts, Arizona, Alaska, Taiwan, Switzerland.

Then she talks about Duke’s unusual opportunities—undergraduate re-

search, DukeEngage, the freshman Focus program, semesters in New York and Los Angeles, a self-designed curriculum as an option. She moves on to Duke’s unusual features—the Lemur Center, the Duke Immersive Virtual Environment, the Smart House, the Marine Lab, the Duke Farm. She sprinkles in her own experiences as an art history major, a resident assistant on East Campus, a curatorial intern at the Nasher Museum, and a member of the tenting community in K-ville. Her stress is on Duke as a “spirited community.”

The students and parents spill out of the hall, all of them identifiable with their “I visited Duke” blue-and-white stickers. They align themselves with one of several student guides. A good-natured Duke sophomore from New York, wearing a “Lin 17” jersey, introduces himself as Jesse and attracts an instant following. As he leads his group down Chapel Drive, he gets the attention of one particularly engaged prospect, a high-school senior from Virginia Beach, Virginia. He’s overdressed for the long stroll through campus with a heavy black-and-white striped sweater. His current interests—subject, of course, to constant revision—are economics and political science. He says he’s waiting to hear from Stanford and Columbia along with Duke.

Might Duke be his first choice? “I’m liking what I see,” he says. And what about his chances? “I’m keeping my fingers crossed.”



Freshman Class By Race (2011)

“Something that Duke students like in their classmates is that they all do interesting things. They all bring different things to the table.”

BOOKS

Change.edu: Rebooting for the New Talent Economy, by Andrew Rosen '82.
Kaplan Publishing, 2011. 208 pages.

Anyone who follows the news will recognize the schizophrenic character of public discussion of American higher education. On one hand, its research universities are "the envy of the world." As James Fallows of *The Atlantic* and David Brooks of *The New York Times*, among others, have noted, they are one of the few strategic advantages the nation has in a global economy driven by creativity and technological innovation. A not inconsequential set of observers from afar, China's leaders, and increasingly its students, have identified the mode of intellectual inquiry associated with liberal-arts education as a high priority for advancing university-level education in that emerging Leviathan.

On the other hand, the significant drop in indicators of educational quality and achievement that characterize both the nation's K-12 and college-level systems has higher-education critics decrying its failure to educate or train our citizens for the jobs of the future. And as the economy has tanked, college graduates are struggling to find jobs after accumulating unprecedented levels of debt. Indeed, for the first time, student debt nationally exceeded credit-card debt this past year, a fact given considerable visibility in the Occupy movements across the country.

President Obama has used his bully pulpit to insist that colleges and universities do a better job of graduating their students while curbing the seemingly insatiable demand for increased tuition dollars. In his recently announced budget, Obama called for a new \$8 billion program to support community colleges to help improve access to college-level training and education for all qualified Americans.

Into this milieu enters Andrew Rosen, the CEO of Kaplan Inc., one of the largest and most profitable private, for-profit providers of higher education. *Change.edu: Rebooting for the New Talent Economy* is well documented, illuminating, frequently amusing, and often thought provoking. Rosen acknowledges that different sectors of higher education generally serve their students well. But in the aggregate, he suggests, higher education has failed the na-

tion: It relies on traditional models of college and consumes too many financial resources, while not providing opportunity for large numbers of Americans to access the skills and training they need to perform the new economy's jobs.

As the book's title suggests, Rosen sees efficiencies and opportunities in new technologies for educational delivery and data-driven assessment. These technologies, he argues, are optimally suited to expand educational access and address the nation's most fundamental educational and social challenges. He believes the changing global economy calls for a remodeling of higher education's incentive systems, funding structures, and quality assessments. He sees the emerging private, for-profit higher educational institutions, of which his company is a part, as best positioned to provide the needed educational changes.

He sees the emerging private, for-profit higher educational institutions, of which his company is a part, as best positioned to provide the needed educational changes.

Change.edu is not intended to be a critique of research universities: "To be clear, this book is not about the research role of American universities, which has brought unimaginable innovation to fields such as medicine, technology, food and agriculture, materials, policy—indeed virtually every part of our economy and society," he writes. "Rather it addresses whether institutions of higher education are incentivized to deliver excellent learning outcomes for a broad range of students; whether America is getting its money's worth for its investment; and most important, whether we are getting what we need from our higher education system in an era of increasingly intense global economic competition." And Rosen, who earned his law degree from Yale, appreciates the value of meandering through a curriculum we tend to associate with liberal education.

Rosen begins his analysis with public (and the news media's) overemphasis on the traditional college-age population and a truly small segment of highly visible institutions in American higher education. He notes that the generally recognized top



twenty institutions in the country enroll about 1 percent of all students in American higher education, and these established traditional and prestigious universities and colleges "have dominated for many decades, even centuries." Citing *The Winner-Take-All Society*, a book by one of his Duke professors, ITT/Terry Sanford Professor of public policy Phil Cook, and Cornell's

Robert H. Frank, Rosen notes the power of sustained institutional prestige means there has been very little change in the institutions recognized as being among the very best in the nation over the past sixty years. (Duke would be one of the rare exceptions.)

In 2008-09, Rosen writes, only a little more than a third of all students enrolled in degree-granting programs were eighteen to twenty-four-year old, full-time students at four-year schools. Roughly two-thirds were older than twenty-five, frequently part time, and enrolled at two-year schools.

Rosen cites former Duke parent and Harvard Business School professor Clayton Christensen's theory of "disruptive innovation." New market segments ignored by traditional institutions create opportunities in which new entrants change the market, often with fierce opposition from the more established institutions. "Higher education in America has experienced three major waves of disruptive innovation: the establishment of land-grant colleges in the second half of the 1800s, the dramatic expansion of community colleges in the post-World War II era, and the re-

cent wave of for-profit, or 'private-sector' universities. The colleges that resulted from these bursts of innovation were each greeted with condescension, criticism, and charges of illegitimacy," he writes. But over the years, they have emerged as major players in American higher education. In time, he argues, "the newer private-sector universities will achieve the same level of acceptance."

Rosen, who writes with a lively and occasionally tongue-in-cheek style (one chapter is "Club College: Why So Many Universities Look Like Resorts"), describes what he calls "Harvard envy," a seemingly never-ending cycle of vast amounts of money spent, often on non-educational offerings—four-star, hotel-like housing and recreational facilities (his section on climbing walls is particularly instructive and amusing), exotic dining opportunities—with little or no improvement or expansion of student enrollments.

From his perspective, the land-grant and public universities, created to serve a different population from the elite private colleges and universities, now measure themselves by prestige and a set of incentives associated with well-endowed private colleges—what he calls the "Ivory Tower Playbook"—rather than on a variety of "more appropriate measures," such as student learning outcomes and responsiveness to student and economic needs. At the same time, he says these subsidized institutions are placing increasing financial strains on taxpayers and students and their families.

Rosen describes the strengths and weaknesses of the various sectors of higher education in historical context. His discussion of the emergence of the public universities is quite good. The land-grant institutions focused initially on strengthening agriculture, especially in areas other than the Northeast, where private colleges were well established, and have been the catalysts for great social and economic progress. Rosen undervalues to some degree the central role of national defense and the need for a trained and well-equipped military in his discussion of growth of the public institutions. The greatest federal investments in higher education were all militarily related—the first Morrill Act, which created the land-grant system, came shortly after the Civil War, the G.I. Bill followed World War II, and the great expansion of student aid through the National Defense Student Loan Program in 1957 followed the launch of Sputnik.

Rosen is spot-on in describing the important and often contradictory missions of the community-college sector and the abysmal failure of these institutions to access their fair share of state dollars in competition with the more politically powerful K-12 and public university sectors. (Full disclosure: I am a trustee of Durham Technical Community College.) He writes persuasively about the increasing reluctance of states to fund their public-education systems at all levels, which leads to increased tuitions at the public campuses, limits access to the institutions and the classes needed to graduate, and increases student debt.

That's where the private, for-profit sector comes in. Rosen believes the "pedagogy used by the new generation of private-sector colleges is sound and proven—and in some cases they may do a better job of educating students than traditional institutions." He is critical of more traditional institutions for tending to measure inputs instead of outputs—focusing on the credentials coming in rather than the learning that actually takes place. And while he discusses at some length the criticisms of the sector in which Kaplan is a leader, he spends a good deal of the final section of *Change.edu* defending the private, for-profit sector from its critics.

To Rosen's credit, he acknowledges the congressional investigations and charges of misconduct against a number of high profile, private, for-profit institutions in recent years and concedes that these charges in some cases are valid—low completion rates, pushing unaffordable federal loans on students, marketing to and recruiting students who cannot do college-level work, and inaccurate reporting of the job placement of students. But he argues that these are outliers and that the private, for-

profit model can work since schools or companies that cheat on their customers will lose those customers. Further, since this sector is not subsidized, as are public college and universities, the cost to taxpayers is relatively small.

He is speaking in relative terms, of course, since the federal government is on the hook for the billions of taxpayer dollars in Pell grants and loans it provided to these institutions. Somewhat surprisingly, Rosen does not devote a great deal of time arguing for online learning per se, but essentially says it is the future. Not surprisingly, he doesn't mention that the private, not-for-profit schools, according to a *New York Times* report in December 2011, are among the leaders in lobbying expenditures in Washington, with some \$16 million spent on fighting new U.S. Department of Education regulations.

There is much to like in this book. Rosen is right that there is something troubling about the disparity between wealthier students who can attend private colleges with large endowments, or state schools with taxpayer subsidies, while students with fewer advantages attend private, for-profit schools with less of a subsidy and a greater proportional need for larger loans (which leads to greater student debt).

In my Duke seminar on higher education and the news media, we discuss many of these issues. I plan to add *Change.edu* to the syllabus.

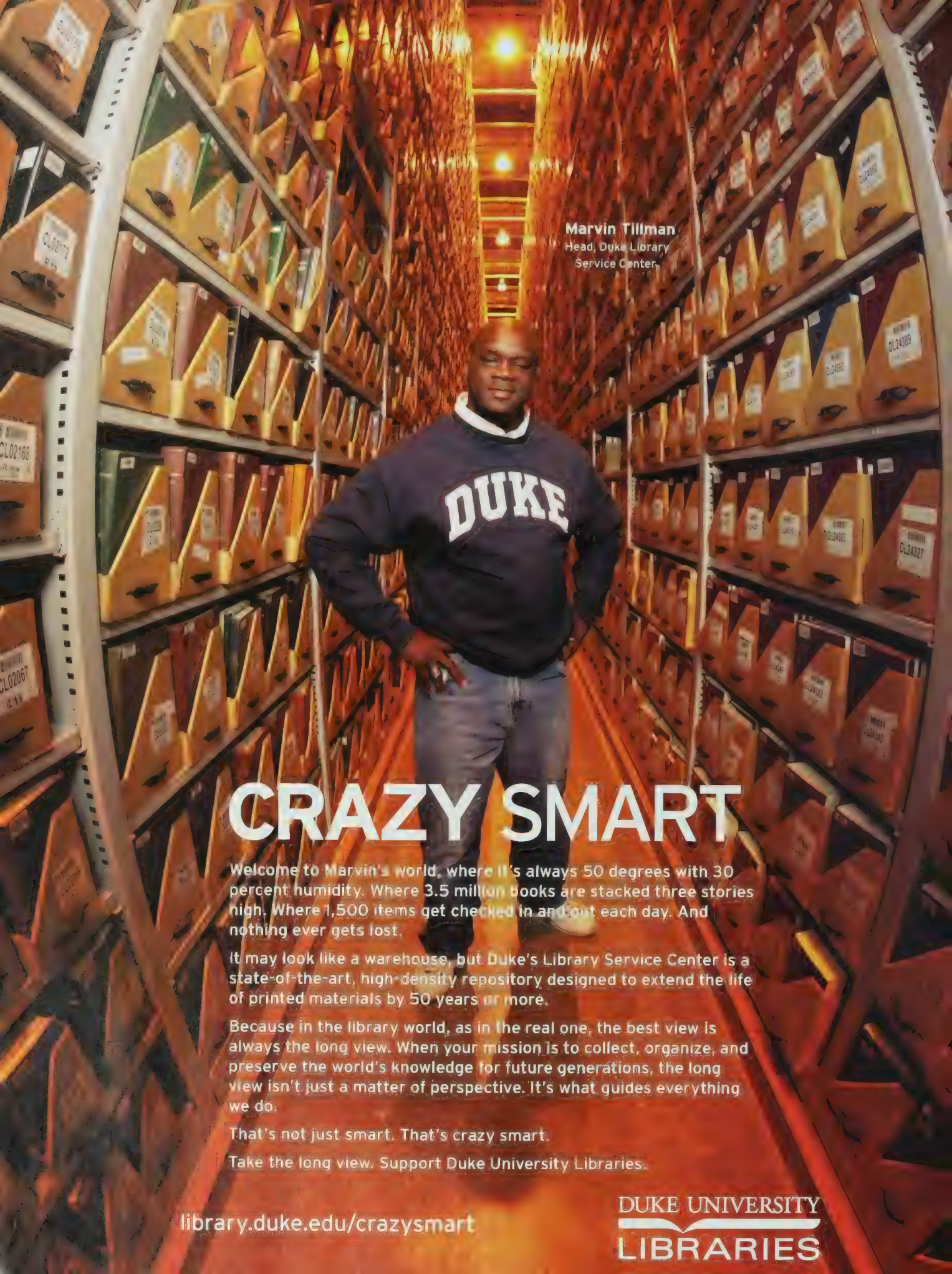
—John Burness

Burness retired in 2008 as senior vice president for public affairs and government relations at Duke and served during 2010-11 as interim president of his alma mater, Franklin & Marshall College. He is a visiting professor of the practice at the Sanford School of Public Policy.

Rosen Highlights **Duke Magazine Forum**

Alumni can hear more about Andrew Rosen's critique of higher education at the Duke Magazine Forum during Reunions Weekend. Rosen will join a panel of higher-education experts to explore the topic **"Higher Ed: Who Can Afford It and Who Benefits From It?"**

The forum will take place at **2 p.m., Friday, April 20**, in the Bryan Center's Griffith Film Theater. Video from the forum will be posted on the Web as part of Duke's "Office Hours" series; go to **www.dukealumni.com** for more information.

A photograph of Marvin Tillman, Head of Duke Library Service Center, standing in a long aisle of a library. He is wearing a dark blue sweatshirt with "DUKE" in white letters and light blue jeans. The aisle is lined with tall metal shelving units filled with numerous yellow and orange folders or book covers, creating a sense of depth and scale. The lighting is warm and focused on the center of the aisle.

Marvin Tillman
Head, Duke Library
Service Center

CRAZY SMART

Welcome to Marvin's world, where it's always 50 degrees with 30 percent humidity. Where 3.5 million books are stacked three stories high. Where 1,500 items get checked in and out each day. And nothing ever gets lost.

It may look like a warehouse, but Duke's Library Service Center is a state-of-the-art, high-density repository designed to extend the life of printed materials by 50 years or more.

Because in the library world, as in the real one, the best view is always the long view. When your mission is to collect, organize, and preserve the world's knowledge for future generations, the long view isn't just a matter of perspective. It's what guides everything we do.

That's not just smart. That's crazy smart.

Take the long view. Support Duke University Libraries.

library.duke.edu/crazysmart

DUKE UNIVERSITY
LIBRARIES

AlumniRegister

DUKE ALUMNI ASSOCIATION



Duke University Archives

Before there were Crazies: Students gather for a Duke-UNC pep rally in 1939, the year before the Duke Indoor Stadium—later renamed in honor of basketball coach Eddie Cameron—became the Blue Devil home court.



John Sinden

A Remarkable Life

Mary Duke Biddle Trent Semans remembered for her career of service.

Mary Duke Biddle Trent Semans '39, Hon. '83—lifelong philanthropist, civic leader, humanitarian, and great-granddaughter of university namesake Washington Duke—died January 25 at the age of ninety-one. A service in Duke Chapel the following Monday was standing-room only, as family and friends paid tribute to the remarkable arc of Semans' life and her indelible legacy of service. The diversity of backgrounds of those present—university leaders, state and local politicians, community activists, artists, students, faculty members, alumni—was a testament to her far-reaching influence.

Semans was born in New York to Mary Lillian Duke, the only

daughter of Benjamin Duke, and Anthony J. Drexel Biddle Jr., a general in the U.S. Army who later served as ambassador to Poland and Spain. Through her parents, Semans was introduced to the transformative power of the arts, the importance of educational opportunities, and the imperative of helping others. These guiding principles shaped her life and were augmented by her trademark graciousness and resolve.

When she was fourteen, Semans' parents divorced, and she moved to Durham to live with her grandmother Sarah P. Duke, for whom the Duke Gardens are named. She enrolled at Duke as a fifteen-year-old, and in 1938 married Josiah Charles Trent, a medical student who later became

**"She lived to do good for others.
Indeed, she lived for others."**

with her grandmother Sarah P. Duke, for whom the Duke Gardens are named. She enrolled at Duke as a fifteen-year-old, and in 1938 married Josiah Charles Trent, a medical student who later became



Semans family Papers

Lasting legacy: Infant Mary Duke Biddle, above, with mother Mary Lillian Duke Biddle and grandfather Benjamin Duke; as a girl with portrait of great-uncle James B. Duke; with daughters Mary and Rebecca; speaking at the 1983 commencement ceremony.

chief of Duke Hospital's thoracic surgery department. The couple had four daughters: Mary Duke Trent Jones '63, Sarah Elizabeth Trent Harris '63, Rebecca Gray Trent Kirkland '64, M.D. '68, and Barbara Biddle Trent Kimbrell. In 1948, Trent died of lymphoma.

Semans remarried in 1953 to urologist James Hustead Semans, and the couple had three children together: Jenny Lillian Semans Koortbojian A.M. '06, James Duke Biddle Trent Semans, and Beth Gotham Semans Hubbard '86.

Throughout her life, Semans was devoted to improving the lives of individuals and enhancing Duke, Durham, and her adopted home state of North Carolina. In a 1986 profile of Semans in *Duke Magazine*, she was asked if she had a particular message she wanted to convey to alumni. "Two words," she replied. "Fight injustice!"

Semans served on Duke's board of trustees from 1961 to 1981. She was a trustee of The Duke Endowment, a private foundation established in 1924 by her great-uncle James B. Duke, for fifty-five years and was its first female chair, from 1982 to 2001. She was mayor pro tem of Durham from 1953 to 1955 and was a trustee of the Lincoln Community Hospital, from 1948 to 1976. She and James Semans were instrumental in creating the North Carolina School of the Arts, now the University of North Carolina School of the Arts, where she served as a trustee for more than twenty years.

Her philanthropic work included stewardship of the Mary Duke Biddle Foundation, created by her mother; the Josiah Charles Trent Memorial Foundation; the Josiah Charles Trent Collection of the History of Medicine; and the Mary Duke Biddle Scholarship. She was also a tireless advocate of the arts at Duke and was instrumental in establishing the Duke University Museum of Art. The Mary D.B.T. Semans Great Hall at the Nasher Museum is named in her honor.

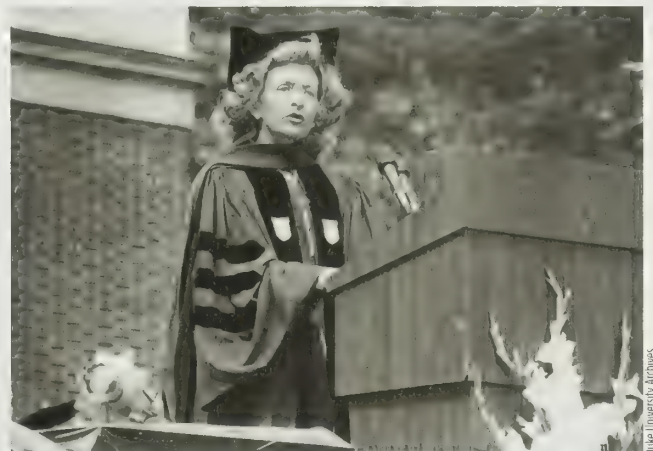
Semans earned a number of awards during her life. In 1986, she was awarded Duke's University Medal for Distinguished Meritorious Serv-



Semans family Papers



Harold Moore, Durham Herald-Sun



Duke University Archives

ice, the highest honor the institution bestows. She also received the National Brotherhood Award from the National Conference of Christians and Jews, the University Award from the University of North Carolina, and the John Tyler Caldwell Award for the Humanities from the North Carolina Humanities Council. She earned honorary degrees from Davidson College, North Carolina

Central University, Elon University, Shaw University, Campbell University, UNC-Chapel Hill, Pfeiffer University, and N.C. Wesleyan College. In 2009, she was inducted into the North Carolina Women's Hall of Fame.

At the service, President Richard H. Brodhead recalled his first meeting with Semans, shortly after he was named president in

RETROSPECTIVE

The Original Wireless

In the fall of 1947, three Duke roommates had an idea to launch a campus radio station. Using a turntable and microphone balanced on a desk in their Kilgo Hall dorm room, Ethelbert "Sonny" Elmore Jr. '50, Archie Mathis Jr. '51, and Edgar Hillman Jr. '49 played records and broadcast news to their classmates. Naming their station WDCD ("We Cover Duke Campus"), they pitched it to the Duke administration, hoping for financial backing.

On October 28, 1947, a committee of Duke deans and faculty members approved the students' proposal. The station was renamed WDBS, which stood for Duke Broadcasting System, and became an official student organization. After a lengthy search for funding and on-campus space, the station went live on May 15, 1950, broadcasting on 560 AM from a basement room in the divinity school.

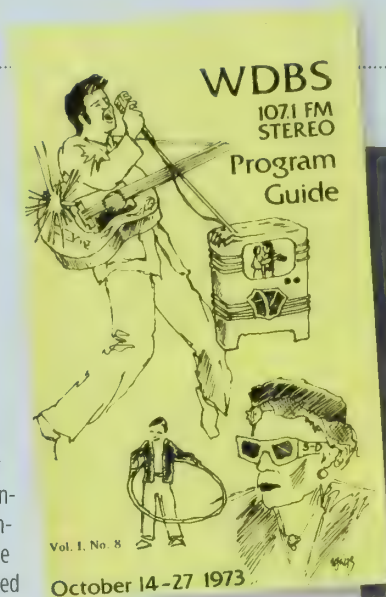
Programming during the station's early years included campus news, classical and popular music, a student-faculty quiz show, and a regular panel on campus issues called "Three Dolls and a Guy." A daily morning segment known as "Flying Saucers" featured the latest rock 'n' roll hits.

In 1971, WDBS purchased an FM license to allow transmis-

sion to the Triangle, while the AM station remained the "campus station." WDBS-FM became known for its eclectic mix of music, comedy sketches, and interviews. Beginning in 1973, the station published a monthly program guide, which itself became an important avenue for student expression. The guide featured countercultural essays and original news stories on Durham politics.

In 1980, after a series of administrative changes, the station changed its focus to jazz and classical programming. Three years later, WDBS-FM was sold to Classic Ventures Inc. The Duke AM station moved to FM and became WXDU, which offers a mix of electronic music, world music, jazz, and local bands. Early recordings from WDBS are preserved in the University Archives, ensuring that the early sounds of Duke radio won't fade away.

—Jessica Wood Ph.D. '10,
Duke Libraries



Tune in, turn on: Duke student radio began in a dorm room in 1947, evolved from an AM station to an FM station in 1971, and was renamed WXDU in 1983. Inset, WDBS Program Guide from 1973.



Courtesy of the Semans Family

Devoted: Mary, and her husband, James Semans, worked together on a wide range of philanthropic, medical, and educational initiatives.

December 2003. His wife, Cindy, and their son were already in conversation with Semans when Brodhead joined them, "going at it a mile a minute, moving from one pleasure to another, as if they had known each other for 100 years," he said. "She had taken outsiders and made them feel quite at home, and at the end of two minutes, she had done the same for me."

"If you knew Mary, you mattered," said Brodhead. "Lucky us to have been part of the world that Mary Semans loved and made."

Joel Fleishman, professor of law and public policy at the Sanford School of Public Policy, reflected on the motivation behind Semans' many good works. "Don't let the mile-high stack of Mary's achievements distract you from what made them possible, what powered them. For that you have to look inside her. She was invariably kind to and gentle with everyone, regardless of their station in life. She lived to do good for others. Indeed, she lived for others." He noted that Semans was responsible for persuading Terry Sanford to be a candidate for the Duke presidency in 1969 and for advocating for his candidacy to the board of trustees.

"We have lost a guiding light and great leader who helped make Duke one of the world's great universities."

In the wake of her death, people who knew her well or only in passing contributed their own reminiscences. A letter to the editor in *The Chronicle* recalled Semans as a regular visitor to Durham's Guglhupf Bakery, where she waited patiently in line to place her order and knew every staff member by name. On the Duke University Facebook page, a commenter expressed appreciation for a scholarship Semans funded that "paid

for my first year of grad school." Another posted, "We have lost a guiding light and great leader who helped make Duke one of the world's great universities. May she rest in peace."

Semans is survived by her seven children; grandchildren J. Trent Jones, Benjamin Parker Jones '91, Jonathan E. Zeljo '95, Christopher M. Harris, Matthew C. Harris, Sarah F. Harris Counts, Benjamin N. Lucas, Katherine R. Pendergraft, Shannon Harris Flanders '86, Josiah C.T. Lucas J.D. '88, Charles C. Lucas III J.D. '90, Kenneth Rhyne Harris '94, J.D. '02, Gregory Kimbrell, Joseph Kimbrell, Ryan Hubbard, and Spencer Hubbard; and twenty-nine great-grandchildren.

—Bridget Boober

Board of Directors, 2011-12

President: Hardy Vieux '93
Secretary-Treasurer: Sterly L. Wilder '83
President-elect: Jeffrey C. Howard '76

Vice Presidents:

Julie Berger Ferguson '81, Carmichael Roberts Jr. '90, Ph.D. '95
Lee H. Roberts '90, Suzanne M. Rose '94

Duke Magazine Editorial Advisory Board representative:

Sarah Hardesty Bray '72

Directors-at-large:

Betsy Alden '64, D. Michael Bennett '77
Jack W. Boyd '85, Christopher Brandt '00,
Palmer Peebles Garson '79, Cecelia Gassner '94
Jason Goode '97, J.D. '00, Peter C. Griffith '76
Roseann Visconti Hassey '83, Winston Henderson '90, J.D. '96
Edwin Howard Jr. '63, M. Shepard Moyle '84
C. Howard Nye '84, Kimberly Dawn Reed '86
Tonya Terrell Robinson '92, Mark E. Stalneckner '71
Pamela Stone '73, Paul Teller '93
John Tolisma '95, Wendy Tsai '92
Kathleen Kaylor Wagoner '77

Professional school representatives:

Carmichael Roberts Jr. '90, Ph.D. '95
Graduate School of Arts and Sciences
Wyman Fraser Davis '87, M.Div. '95, Divinity School
Robin Ten Kate M.B.A. '03, Fuqua School of Business
Charles F. Finley Jr. M.F. '67, Nicholas School of the Environment
Ershela Sims B.S.E. '93, Pratt School of Engineering
Amy Hepburn '97, M.P.P. '01, Sanford School of Public Policy
John A. Howell '72, J.D. '75, School of Law
Diana McNeill '78, M.D. '82, School of Medicine
Constance Cabell Kendall B.S.N. '84, School of Nursing
Judith Ann Maness M.H.A. '83
Graduate Program in Health Administration
Allen William Wicken M.S. '74, Graduate Program in Physical Therapy

Young alumni representatives:

Kyle Knight '08, Katie Laidlaw '04
Heather Renee Oh '03, James Pineda '05

Faculty representatives:

Alexander Hartemink '94, Associate Professor of Computer Science
Thomas W. Robisheaux '74, Associate Professor of History

Student representatives:

Daniel J. Griffith G '14
President, Graduate and Professional Student Council
Susan Foster '11, Co-chair, Student Alumni Advisory Board
Molly Himmelstein '12, Co-chair, Student Alumni Advisory Board

Honorary members:

N. Allison Haltom '72, William E. King '61, A.M. '68, Ph.D. '70
Suzanne J. Wasiolek '76, M.H.A. '78, LL.M. '93
Gerald L. Wilson B.D. '61, A.M. '68

Presidents, School and College Alumni Associations

J. Burton Palmer Jr. M.Div. '90, Divinity School
Karen E. Grund '84, M.B.A. '90, Fuqua School of Business
Michael Peniony B.S.E. '87, M.E.M. '96
Nicholas School of the Environment
John J. Glushik B.S.E. '90, Pratt School of Engineering
Lori Terens Holshouser, A.B. '77, J.D. '80, School of Law
Dale R. Shaw '69, M.D. '73, School of Medicine
Kathleen E.V. Gallagher B.S.N. '75, School of Nursing
Judith Ann Maness M.H.A. '83
Graduate Program in Health Administration
Allen William Wicken M.S. '74, Graduate Program in Physical Therapy

Duke
ALUMNI ASSOCIATION

DUKE ALUMNI ASSOCIATION CLASSNOTES

CLASS NOTES are an opportunity for alumni to keep classmates and the greater Duke community informed of significant accomplishments.

- When writing to us, please include your full name (with maiden name, if applicable), class year, and current address.
 - For marriage or civil-union announcements, please also include both partners' names and the ceremony date.
 - For birth announcements, please include the parents' names along with the child's birth date, full name, and siblings, if applicable.
- Having this information helps the Duke Alumni Association serve you better. *Duke Magazine* does not record engagements.

Half-Century Club

1930s

Frances Ware Bliss R.N. '34, B.S.N. '39 celebrated her 99th birthday this past November. She fondly remembers working with a nursing supervisor who had been with the Johns Hopkins unit in World War I, caring for Duke football players and administering alcohol sponge baths to cool off patients (the wards were not air-conditioned). She lives in New Vineyard, Maine.

There are three ways to submit a class note for publication:

Write: Class Notes Editor, *Duke Magazine*, Box 90572, Durham, N.C. 27708-0572
Fax: (919) 681-1659. Typed notes only, please.
E-mail: dukemag@duke.edu

Because of the large amount of class note material we receive and the long lead time required for editing, typesetting, design, and printing, your submission may not appear for three to four issues.

1940s

William P. Wilson '43, M.D. '47 recently received the President's Heritage Award from the Christian Medical & Dental Association. Wilson works in Christian psychiatry.

Robert Earl Haines B.S.C.E. '49 lives in an assisted living community in Illinois, where he is an ambassador for new residents and attends movies, card games, educational lectures, socials, and music events. His career as an engineer included working as a dynamiter and blacksmith helper, building a

steel mill that produced nuclear submarines, and working in Saudi Arabia and Australia.

Allan H. Meltzer '49 received both the Truman Medal for Economic Policy and one of four Bradley Prizes in 2011. Meltzer also has written two volumes of *A History of the Federal Reserve* (University of Chicago Press). He teaches at Carnegie Mellon University as the Allan H. Meltzer Professor of political economy and is a Distinguished Visiting Scholar at the Hoover Institution at Stanford University.

1950s

Arthur C. Christakos '51 has written *You and Rapid Growth Population!* (PublishAmerica). Christakos discusses his changing views on family planning over the past four decades and the threat of rapid growth in the global population.

Erdman B. "Pal" Palmore '52 has written *Older Can Be Bolder: 101 Answers to Your Questions About Aging* (Kindle and CreateSpace). Palmore is a professor emeritus at the Duke Center for the Study of Aging. He has published 15 other books about aging.

John William Edmunds '56 was one of two former head coaches of Cave Spring High School honored in September when the football stadium was dedicated to them. Edmunds started the football program in 1956.

Fred L. Watkins '56 has written *Sue, Mary and Charles* (PublishAmerica), a book of bedtime stories



Establish a Charitable Gift Annuity
at Duke Before Rates Fall

When you make a gift of \$10,000 or more to establish a charitable gift annuity, Duke will pay you a fixed income for life. Take advantage of this opportunity and secure your gift before rates fall July 1.

	YOUR AGE	RATE FOR GIFTS THROUGH 6/30/12	NEW RATE EFFECTIVE 7/1/12
Sample rates:	60	4.8	4.4
	70	5.8	5.1
	80	7.5	6.8
	YOUR AGES		
	70/68	5.0	4.5
	76/73	5.6	5.0

Contact us today to discuss gift annuities or other gift plans that can help you meet your financial and philanthropic goals.

Duke University Office of Gift Planning

Box 90600, Durham, NC 27708

Phone (919) 681-0464

Email gift.planning@dev.duke.edu

Explore gift plans at giving.duke.edu/giftplanning

about three children who live in a castle and find tunnels, treasures, and strange animals in the forest.

Robert R. Waller '58 was awarded the Howe Medal by the American Ophthalmological Society, its highest honor. Waller also was awarded the second Lifetime Achievement Award ever given by the Methodist Healthcare System in Memphis, Tenn.

Henry F. Safrit '59, M.D. '63 received a Humanitarian Award from the Duke Medical Alumni Association for his work helping disadvantaged teens in San Francisco through his program, the Meritus Fund. A retired endocrinologist, Safrit formed the Meritus Fund in 1996 to provide monetary support for college to promising at-risk students in San Francisco.

1960s

Richard P. Koskey '60 has been appointed to the board of directors of Kinderhook Bank of New York. Koskey belongs to the American Institute of Certified Public Accountants and was the former managing principal of Pattison Koskey Howe & Bucci CPA's.

Charles B. Hammond M.D. '61 completed the book that his daughter, Sharon Hammond McAlister, began before her death in 2009. *Lucky Girl* chronicles Sharon's diagnosis and treatment of breast cancer at age 42 as well as her husband's battle with and death from Lou Gehrig's disease. Hammond also includes his own reflections. He served as the chair of Duke's department of ob-gyn for 22 years and has written more than 400 scientific articles and books.

'62 50th Reunion April 20-22, 2012

Engin Inel Holmstrom A.M. '62, Ph.D. '65 published her first novel, *Loveswept*, a cross-cultural romance set during the social and political turmoil of 1950s Turkey (Parkgate Press). She is a retired sociologist whose articles have appeared in more than 50 professional publications.

Corwin Allan Bell '63 has published a collection of stories, *Sea Story! and Other Sketches: Memories and musing from a life of adventure* (CreateSpace). He is a retired Navy commander and lives in San Diego.

James M. Kennedy III '64 has retired after 34 years as an administrative law judge for the National Labor Relations Board. Kennedy was appointed as judge in 1976 after a career as a trial lawyer and supervisory attorney in Seattle and West Los Angeles.

Terrence R. Mitchell '64 received the 2010 Lifetime Achievement Award from the Organizational Behavior Division of the Academy of Management. Mitchell also was named one of the 35 most influential management scholars by the *Journal of Management* in 2008. He is the Edward E. Carlson Distinguished Professor in business administration at the University of Washington Foster School of Business.

Noel J. Kinnamon '65 received the Josephine Roberts Award from the Society for the Study of Early Modern Women for his sixth book, *The Correspondence (c. 1626-1659) of Dorothy Percy, Countess of Leicester* (Ashgate). The edition is part of Ashgate's

Michael DiLeo '68

Back to the land

Michael DiLeo attended Duke during the late 1960s, when the civil rights movement, the Vietnam War, and other social upheavals led to student protests that rocked college campuses across the nation. "It was a crazy time in the world," says DiLeo. "Perhaps because of that craziness, many of us formed particularly strong bonds in college." At graduation, he and five other classmates, despite heading in different directions to graduate school and the Army, made a pact to buy land together and ultimately start a school. Their educational philosophy inclined toward the student-centered pedagogy advocated by author/educator John Holt and utilized at A.S. Neill's Summerhill School in England.

"This was in the midst of the back-to-land movement, and because of our great experiences at Duke, most of us were very interested in education," he says, mentioning such pivotal faculty members as James B. Duke Professor of French Wallace Fowlie, poet and English professor Helen Bevington, and world religions professor Herbert Sullivan.

By 1971, DiLeo and his fellow 1968 alums—Ashley Carrithers, Susan Prescott, Russell Fuller, and Barbara Dean—and Bruce Alexander '66 had all moved to California and begun their search for land. They originally had planned to purchase around forty acres but then heard about a 670-acre parcel in a remote part of far northern California. There was nothing there but the vast beauty of the surrounding wilderness. The nearest town was twenty miles of dirt road away, and there was no electricity or phone lines.

The group raised the \$22,000 down payment toward the \$98,000 total cost and began a number of initiatives—a year-round school, a hay-hauling business, the environmental publishing company Island Press, summer camps, and a farm. Years passed. Children came along, and then grandchildren. All but

one of the original six, including DiLeo, eventually moved to other parts of the country to pursue additional education and career opportunities. Only Barbara Dean has remained living on the property, which is now structured as a limited liability corporation with fourteen shareholders.

based on what might have happened to a group of young people like his friends had they stayed in that remote region throughout the past forty years. "That area became a pot-growing capital, and things got very dark and dangerous during the '90s," he says. "The book follows a group of hyper-in-



Johnny Hall

The land has continued to exert a powerful influence on DiLeo. During the 1980s and '90s, DiLeo worked as a freelance writer and editor for national publications such as *Mother Jones*, winning awards from the Society of American Travel Writers and the Dallas Press Club. He also published two nonfiction books; one a history of California, the other cowritten with Carrithers, Fuller, and Alexander about their experiences on the land. (Both are available from Island Press.) He earned his M.F.A. in creative writing from Warren Wilson College in 1997 and returned to his early love of education by becoming a teacher at a Waldorf School in Austin, Texas, where he now lives with his wife and two sons.

He's currently putting the finishing touches on a novel, tentatively titled *100 Blue Days*, loosely

intellectual friends from the hippie Utopian era to the end of the millennium."

Despite the twists of fate that have dispersed the original group, their ties to the land, and what it represents, remain strong: (Bruce Alexander died a few years ago.) Every year, the original group members and their extended families return for a summer-solstice party, with volleyball, swimming, and camping, as well as the annual shareholder meeting. Real-estate agents long ago gave up trying to persuade the group to sell off any part of the land.

"It can't be sold unless there is a unanimous vote of the shareholders," says DiLeo. "The plan is to keep it forever."

—Bridget Booher

When did Duke play its first basketball game?

What was the "Bassett Affair," and what did Teddy Roosevelt say about it?

How did the "Dope Shop" get its name?

Find out in

Duke Illustrated:
**A Timeline of
Duke University
History, 1838-2011**

A beautiful, full-color history of the events, traditions, and people that have made Duke a great research university, with images and stories from the Duke University Archives. The perfect gift, memento, or graduation present. Yours for a \$50 charitable donation to the Duke University Archives.

Visit library.duke.edu/illustrated to order your copy online.



series titled *The Early Modern Englishwoman 1500-1750: Contemporary Editions*.

'67 45th Reunion April 20-22, 2012

Steven M. Roth LL.B. '67 has published *Mandarin Yellow* (Telamachus Press), a mystery novel set in Washington and featuring Roth's central character, Socrates Cheng.

James T. Hay '68 was elected president of the California Medical Association. Hay will continue the family practice he has had for 33 years in San Diego.

Frances Shurcliff Worthington '68 has written *Abraham: One God, Three Wives, Five Religions* (Bahá'í Publishing Trust). Worthington uses sacred scriptures and traditions from five religions to explore the story of Abraham's banishment from ancient Mesopotamia, his life as a shepherd, and his numerous descendants.

Harry R. "Rick" Diz '69 was named the Cooney-Jackman Professor of renewable energy at Gannon University in Erie, Pa. Diz is also the chair of the department of environmental science and engineering.

Steven E. Lindberg '69 received the 2011 Haagen-Smit Prize, which recognizes outstanding papers published in *Atmospheric Environment*. Lindberg shares the prize with his coauthor, Jack Calvert, for their 2005 paper, "Mechanisms of mercury removal by ozone and hydroxyl in the atmosphere."

IRON DUKES
Building Champions

Support Duke student-athletes by becoming a member of the Iron Dukes. Memberships start at \$100 and include a number of great benefits, such as priority seating and parking, invitations to special Iron Dukes events, and a subscription to Go Duke the Magazine.

The Iron Dukes
116 Cameron Indoor Stadium
Box 90542
Durham, NC 27708-0542
(919) 613-7575
IronDukes.net

Follow us at facebook.com/theirondukes Follow us at twitter.com/theirondukes Find us on LinkedIn

1970s

Sherry E. Baskin '71 was named Pro Bono Attorney of the Year by the Dauphin County Bar Association in 2011. Baskin is the Capital BlueCross corporate secretary and previously practiced health-care law in the Philadelphia area.

Robert M. Entman '71 won the international Alexander von Humboldt Research Award for his contributions to political communications regarding media framing and bias. Entman is the first political scholar to receive this award. He is the J.B. and M.C. Shapiro Professor of media and public affairs at George Washington University.

Renee J. Montgomery '71, J.D. '78 has received the Dr. Ellen B. Winston Award from the Association of Home and Hospice Care in North Carolina for her state and federal leadership positions and her role in championing the cause of home care and hospice. She is a partner at Parker Poe Adams & Bernstein in Raleigh.

'72 40th Reunion April 20-22, 2012

Robert E. Ansley Jr. '72 has been named a fellow of the American Institute of Certified Planners. The AICP College of Fellows recognizes those who have achieved excellence in city planning. Ansley has been president of the Orlando Neighborhood Improvement Corp., a developer of affordable housing in central Florida, since 1991.

Alice R. Huneycutt '72 was appointed to the board of directors at the law firm Stearns Weaver Miller in Tampa, Fla. Huneycutt is a shareholder in the litigation department and has 28 years of experience representing major financial institutions.

John E. "Jet" Johnston '72 was inducted into the Pennsylvania Football Coaches Hall of Fame. A noted high-school coach, Johnston went on to coach at Dickinson College and Pennsylvania State University. He also coached in the Sugar Bowl, the Aloha Bowl, and the Kickoff Classic. Johnston now coaches at Penn State's summer football camps.

Jane Roach Ervin '73 presented her paper "The Forbidden Fruit is Meat: An Interpretation of the Tree of Knowledge of Good and Evil" and led a panel discussion at the Sunstone Symposium at Weber State University in Ogden, Utah, in August 2011.

Robert D. Peltz '73 recently presented "Special Considerations in Handling Resort Cases" at the American Association for Justice Convention in New York. Peltz is an associate at Leesfield & Partners in Miami, where he specializes in maritime and commercial litigation.

Stephen G. Hoffius '75 cowrote *Upheaval in Charleston: Earthquake and Murder on the Eve of Jim Crow* (University of Georgia Press). The book shares the history of the strongest earthquake ever to hit the East Coast, which struck Charleston, S.C., in 1886, through the experience of a Charleston newspaper editor who was later murdered.

Richard S. Glaser Jr. '76 was inducted as a fellow into the American College of Trial Lawyers. Glaser is a partner in the litigation department of Parker Poe Adams & Bernstein, focusing on white-

Laura Gentile '94

Building the espnW brand

Growing up on Long Island, Laura Gentile was immersed in sports from a young age. She attended U.S. Open golf tournaments with her father, and while still in grade school played goalie as her two older brothers practiced their street hockey slap shots. At Duke she was

platform that connects female fans to the sports they love and follow."

EspnW began as a blog in December of 2010, and the full website went live in April 2011. Gentile and her colleagues continue to refine and enhance the espnW concept, including adding a range of digital media components and

After graduating from Duke with a double major in English and political science, Gentile received her M.B.A. in marketing and organizational behavior, funded in part through ACC and NCAA postgraduate scholarships. After a stint as a senior partner and management supervisor at Ogilvy & Mather Worldwide, she joined ESPN in 2003 as a director of advertising and marketing, and was promoted to senior director of brand management with the company's consumer marketing division. Before launching espnW—a process that took more than two years—she was special assistant to ESPN and ABC Sports president George Bodenheimer.

In February, Gentile returned to Duke to moderate a panel discussion with Olympic gold medalist and law professor Nancy Hogshead-Makar '86 during "Winning Women: Advocates, Educators and Athletes." The event, sponsored by the Duke Alumni Association and Duke Athletics, celebrated forty years of women's athletics at Duke and the merging of the Woman's College with Trinity College.

"One of the beautiful things about the espnW endeavor is meeting an incredible network of women," says Gentile. "When I was a student at Duke and was aspiring to All-America, I would see Nancy's name and be inspired. So I knew and admired her from afar, but now we've gotten to know each other fairly well." Hogshead-Makar is former president of the Women's Sports Foundation and is currently its legal adviser; the foundation is one of espnW's charity partners.

Gentile says that she has enjoyed watching the status of women athletes and sporting events grow among both male and female fans. "You hear people say the phrase 'female athletes,' but at the end of the day, they are athletes first and foremost."

—Bridget Booher



Courtesy espnW

captain of the varsity field hockey team twice, and she continues to be an avid Blue Devil fan.

Gentile is the kind of woman that espnW—ESPN's initiative for women athletes and fans—is targeting. Fittingly, she is also espnW's vice president. "We did a lot of research before launching espnW. One of the core insights we uncovered was that for women, once an athlete, always an athlete. And once an athlete, always a fan," says Gentile. "Until now there really hasn't been a major media

integrating content with the wider ESPN brand. With the fortieth anniversary of Title IX this summer, espnW and the entire ESPN franchise will highlight a range of stories and profiles that look at the impact of the landmark legislation.

Gentile was recruited to play on Duke's field hockey team, where she earned All-America and All-ACC honors. The team made its first-ever appearance in the NCAA Tournament, and Gentile was later named to the ACC's 50th Anniversary field hockey team.

collar criminal defense and internal investigations. Glaser previously served as an assistant U.S. attorney for more than 20 years.

Michael K. Kuhn '76 was selected for *The Best Lawyers in America* 2012. Kuhn, a partner at Jackson Walker in Houston, specializes in commercial real estate.

Barbara Kiehne Younger '76 launched the blog *A Friend for the Ride: Encouraging Words for the Memphis Roller Coaster* (<http://friendfortheride.com>). Younger received an M.F.A. in writing

from the Vermont College of Fine Arts in 2008, and she writes books and creative curricula for children.

'77 **2012 Reunion** April 20-22, 2012

Rebecca L. Boehling '77 co-published *Life and Loss in the Shadow of the Holocaust: A Jewish Family's Untold Story* (Cambridge University Press) with Uta Larkey. Boehling and Larkey used recently discovered correspondence to re-create the history of the Kaufmann-Steinberg family through an eight-way conversation.

Carol E. Cookerly '78 received the 2011 Bransby Christian Leadership Award for her 15 years of exceptional service as a volunteer. The YMCA of Metro Atlanta honored Cookerly with a recognition dinner in November.

1980s

Timothy Charles Cope Ph.D. '80 has been named Brage Golding Distinguished Professor of research at Wright State University in Dayton, Ohio. Cope is a professor and chair of the department of neuroscience, cell biology, and physiology, and serves as the director of the WSU & Premier Health Partners Neuroscience Institute.

William V. Gillies M.B.A. '80 recently climbed Mount Kilimanjaro via the Western Breach, a 16-hour climbing route.

J. Randall Minchew '80 has been elected to the Virginia House of Delegates. Prior to his election, he served as legal adviser to Virginia Gov. Bob McDonnell and was a lawyer in Leesburg, Va.

Bruce J. Ruzinsky '80, J.D. '83 was selected for *The Best Lawyers in America* 2012. Ruzinsky, a partner at Jackson Walker in Houston, represents financial institutions, corporations, and other business entities.

'82 **2012 Reunion** April 20-22, 2012

Rebecca Lynn Schmidt A.M. '83 has received a Meritorious Executive Presidential Rank Award in recognition of her initiatives to improve openness and outreach to various stakeholders in the nuclear field. She is the director of congressional affairs for the Nuclear Regulatory Commission in New Hill, N.C.

Mary Elizabeth Barnes Ph.D. '84 has published *The Dark Strip* (iUniverse), a novel examining the issues of character and hate crimes in the mid-20th century.

Carolyn Jean Brown '84 has published *A Darling Life: A Biography of Eudora Welty* (University Press of Mississippi), a biography of the novelist geared toward young adults.

William K. Davis '84, A.M. '87 has been named the director of the United Nations Development Program representation office in Washington, D.C. Davis is a veteran U.S. diplomat and previously served as the director of the U.N. Information Center in Washington, D.C., for six years.

Robert K. Thompson III '84 joined Westfield, a global shopping centers management company, in Los Angeles as vice president of marketing in May 2011. He formerly was vice president of global marketing for Hilton Worldwide in Beverly Hills, Calif.

Thomas "Tim" Borstelmann A.M. '86, Ph.D. '90 published *The 1970s: A New Global History from Civil Rights to Economic Inequality* (Princeton University Press). The book explores how the shape of contemporary American politics and culture has resulted directly from specific changes that began during that decade, changes that turned out



Are being a scholar and being an athlete competing objectives at Christ School? Never. Academics come first.

Will you be a part of a winning tradition? You bet.

CHRIST SCHOOL
ASHEVILLE, NORTH CAROLINA

www.christschool.org

A college preparatory boarding and day school founded in 1900 for boys in grades 8 through 12. Christ School is affiliated with the Episcopal Church.

to be global as well as local. He is the Thompson Professor of modern world history at the University of Nebraska-Lincoln.

Patrick T. Collins B.S.E. '86 has been included in *New York Super Lawyers 2011—Metro Edition*. Collins was recognized for his work in bankruptcy and creditor/debtor rights.

Alfred C. Martino II '86 has published *Perfected by Girls* (Coles Street Publishing), a story about the lone girl on a high-school wrestling team.

'87 25th Reunion April 20-22, 2012

Adam Kurt Derman '89 was selected for *The Best Lawyers in America 2012*. Derman is a member of Wolff & Samson in West Orange, N.J., and was recognized for his work in commercial, intellectual property, labor and employment, real-estate law, and trusts and estates litigation.

MARRIAGES: **Sandra Jean Bostian** '86, A.M. '94 to Lia Gaudry on Oct. 1, 2011. Residence: Montgomery Village, Md. ... **Sandra Sung-Hee Cho** '87 to Jason Dimitris on Oct. 7, 2011. Residence: Tallahassee, Fla.

BIRTHS: First child and son to **Kirk Alan Rose** '82 and **Suzanne Miriam Schwartz Rose** '94 on Oct. 25, 2011. Named Jack Barrett. ... Second child and daughter to **Mark Beecher Torlone** '85 and Zara Torlone on Oct. 20, 2011. Named Francesca Maria. ... Third child and second daughter to **Paul Henry Wick** '85, M.B.A. '87 and Karin Wick on July 2, 2011. Named Elsa Amanda.

1990s

Thomas W. Heilke Ph.D. '90 has been named the dean of graduate studies at the University of Kansas. Heilke is a professor of political science and the director of the Center for Global and International Studies.

Juliette M. Rogers Ph.D. '90 has received tenure as an associate professor in the French and francophone studies department at Macalester College in St. Paul, Minn. Rogers' research interests are the transformation of the French novel during the 19th century and Quebec literature and culture, with an emphasis on female writers.

Joseph P. "Jeep" Wedding II B.S.E. '90 has retired from the Air Force. Wedding was a lieutenant colonel and served more than 20 years of active duty service in locations around the world, including Iraq as part of Operation Iraqi Freedom.

Stacy D. Stansell Gardner B.S.E. '91 is the director of the new Center for STEM Education for Girls at the Harpeth Hall School in Nashville, Tenn. She also remains an adjunct associate professor of the practice of biomedical engineering at Vanderbilt University.

'92 20th Reunion April 20-22, 2012

Anna Harwell Celenza A.M. '92, Ph.D. '96 has written *Duke Ellington's Nutcracker Suite* (Charlesbridge Publishing), a book for young readers based on true events that led to Duke Ellington and Billy Strayhorn re-imagining the classic Christmas ballet. This is her sixth book for young readers exploring the stories behind the music. She is a



Jimmy Soni '07

Riding high in the blogosphere

Jimmy Soni is having a bit of a thrill ride. Then again, Jimmy Soni has had a lot of thrill rides. The twenty-six-year-old alumnus was recently named the new managing editor of *The Huffington Post*, and he couldn't have done it without Duke.

Coming off of a yearlong stint in the Washington mayor's office, Soni could sense he was ready for a new adventure. In April 2011, a Duke alum had tipped Soni off that Arianna Huffington was looking for a new chief of staff. Two weeks later, Soni headed to New York and *The Huffington Post*, and within a year, he was named managing editor. "It's like being chief of staff for the entire organization—you help people do their work," Soni says. "If someone wants an extra intern, you help them get that. If someone has an issue or needs more funding, you help them figure that out. And *The Huffington Post* is expanding internationally, adding new sections, and investing in new tech and innovation, so it's a fantastic time to help steward those things along. I'm just a small piece of all of that."

It's tempting to say that getting there wasn't easy, but Soni is the kind of person who eats milestone challenges for breakfast and is still

hungry. At Duke, Soni managed a robust extracurricular life, chairing the Honor Council, writing for *The Chronicle*, creating the Duke Political Union, and serving as the vice president of academic affairs for Duke Student Government. Academically, Soni created a Program II curriculum in ethics under the advisement of former director of the Hart Leadership Program Bruce Payne, drawing together history, philosophy, public policy, and economics. "I threw myself into life at Duke," Soni says. "I used to say, it's one big buffet, why would I limit myself to the salad bar?"

By the time Soni was ready for dessert, his post-graduation options were already expanding. Soni won a prestigious Mitchell Scholarship and completed an M.A. in politics at Ireland's University College Cork, before joining McKinsey & Company for two years, where he claims he was "a run-of-the-mill consultant." Nevertheless, he worked on two particularly exciting projects—the first, a six-month research position with the McKinsey Global Institute in Washington, where he got to see "a 30,000-foot view of the economy," and the second, a two-month intensive education reform project in Bahrain.

After consulting, Soni moved to

D.C., where a debate partner, Rob Goodman '05, was working in the office of the House majority leader. They had been working on a book on Cato the Younger, Julius Caesar's arch nemesis, and wanted to know whether it was a viable project. Through the Duke alumni database, Soni and Goodman found Laura Yorke '85, a publishing agent, and sent her a sample of their work. Yorke liked it so much she decided to represent the book herself. With jobs in American government fueling the pair by day, and Roman government inspiring them by night, the book was completed within a year and a half. "It was one of the happiest periods of my life," Soni says.

Despite his location change, Soni carries his sunny outlook wherever he goes. As a student at Duke, he worked closely with Judith Ruderman Ph.D. '76, then vice provost for academic and administrative services, who offered him the most important advice on being a successful leader. "The best of them have a very keen sense of humor," Soni recalls her telling him. "In a high-stress environment, keep people around you laughing."

—Elissa Lerner

musicologist and the Thomas F. Caeestecker Professor of music at Georgetown University.

Suzanne Elaine Gilbert '92 was selected for *The Best Lawyers in America* '01.2. Gilbert is a partner at Holland & Knight in Orlando, Fla., and was recognized for her work in banking and finance litigation.

Andrew Michael Moskowitz '92 joined Pashman Stein in Hackensack, N.J., in the firm's labor and employment practice. Previously, he was a partner with Deutsch Atkins.

William B. Carver '91 has been named to *Georgia Trend's* "10 Under 40." He is the senior managing director for Hall Booth Smith & Slover's government affairs practice in Atlanta. Carver continues to serve as a major and senior legal opinions lawyer in the Army Reserve, after serving tours in Bosnia and Iraq.

Joshua Dwight "Jed" Esty Ph.D. '96 has written *Unseasonable Youth: Modernism, Colonialism, and the Fiction of Development* (Oxford University Press). He is associate professor of English at the University of Pennsylvania.

'97 **John D. Inazu** B.S.C.E. '97, J.D. '00 has written *Liberty's Refuge: The Forgotten Freedom of Assembly* (Yale University Press). He argues that the constitutional right to assembly—at the heart of such American so-

cial movements as abolitionism, women's suffrage, and civil rights—has been undermined by courts that choose instead to focus on freedoms of association and speech. He is an associate professor of law at Washington University in St. Louis.

Michael P. Maher '97 has returned to Jackson Family Enterprises as the senior vice president and general counsel.

John Emil Vincent Ph.D. '98 has edited *After Spicer* (Wesleyan University Press), a compilation of essays about poet Jack Spicer. Vincent is a poet, critic, and the associate editor of *The Massachusetts Review*.

Sarah M. Dimick Gray Ph.D. '99 was appointed assistant professor of chemistry at Metropolitan State University's College of Arts and Sciences. She previously held a position as a visiting professor at St. Catherine University.

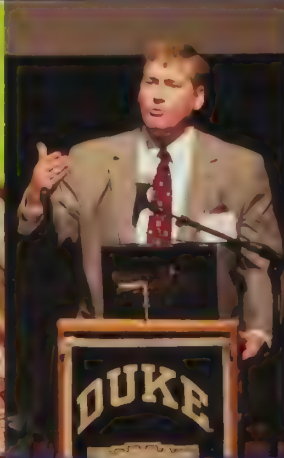
Evelyn E. Shockley A.M. '99, Ph.D. '02 has written *Renegade Poetics: Black Aesthetics and Formal Innovation in African American Poetry* (University of Iowa Press). Shockley is a poet and an assistant professor of English at Rutgers University.

MARRIAGES: **Jennifer Lee Farmer** '96 to Akin Adams on Sept. 12, 2010. Residence: Washington, D.C....**Tiffany M. Montgomery** '98 to Mac William Bishop on Oct. 8, 2011. Residence: New York....**Matthew Wayne Walker**

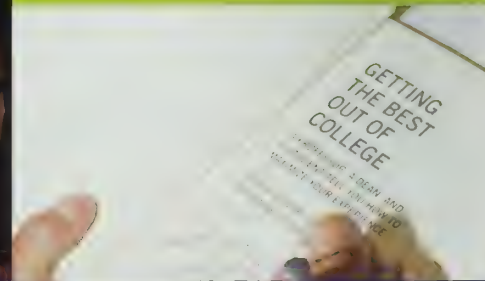
'99 to Amy Hann on Sept. 4, 2011. Residence: San Francisco.

BIRTHS: Second child and first daughter to **Kathleen Mary Hawkins** M.D. '90 and John Partridge on May 22, 2011. Named Megan Grace Partridge....Second child and son to **Stacy Stansell Gardner** B.S.E. '91 and Matthew R. Gardner on Sept. 19, 2011. Named Andrew Lee....Second child and daughter to **Meghdut Robert Biswas** '92 and **Angel Lynne Fleming** '92 on Oct. 23, 2011. Named Lila Dare Biswas....First child and son to **Jason Yael Greenwald** '93 and Corey Nickerson on Sept. 23, 2011. Named Benjamin Nicholas Greenwald....First child and daughter to **Natasha Mack** '93 on Nov. 9, 2011. Named Solana Blue Mack....Third child and first daughter to **Gregory Michael Lucas** M.D. '94 and **Cynthia Melinda Boyd** M.D. '97 on Sept. 6, 2011. Named Jane Susanna Lucas....First child and son to **Suzanne Miriam Schwartz** Rose '94 **Kirk Alan Rose** '82 on Oct. 25, 2011. Named Jack Barrett....First child and son to **Jill Lauren Feldman** '95 and Tim McAndrew on Jan. 18, 2011. Named August Caleb McAndrew....Second child and first daughter to **Robert S. Venick** '96 and **Kristen Campbell Venick** '98 on Sept. 7, 2011. Named Katelyn Marie....Second child and son to **Danielle Lemmon Zapotoczný** '96 and **Stephen Edward Zapotoczný** '97 on Nov. 5, 2011. Named Matthew Joseph....Second child and first daughter to **Margaret Mu-Chieh Chen** '97 and Ittai

Jump-Start College Admissions



Alumni Admissions Forum June 15, 2012



Information sessions, panel discussions, and a chance to compare notes with other families

Come to an all-day, on-campus conference for parents and children with college in their futures. Hear a panel of admissions experts discuss:

- searching for the right school
- the applications process
- financial aid
- setting your timetable
- essays and interviews
- testing



More information and registration is available at forum.dukealumni.com

Duke
ALUMNI ASSOCIATION



ALEXANDER CALDER

AND CONTEMPORARY ART:

FORM, BALANCE, JOY

FEBRUARY 16-JUNE 17, 2012

Tickets on sale at 919-684-4444, or www.events.duke.edu/calder. Nasher Museum Members receive two free tickets per day.
www.nasher.duke.edu

Alexander Calder and Contemporary Art: Form, Balance, Joy is organized by the Museum of Contemporary Art, Chicago. The exhibition is sponsored by The Northern Trust Company. Lead foundation support is provided by the Terra Foundation for American Art and the Chicago Community Trust. Major support for the exhibition is generously provided by The Kenneth and Anne Griffin Foundation. Additional generous support is provided by Margot and George Greig, Anne and Burt Greig, Ruth Horwich, The Broad Art Foundation, Gagosian Gallery, Lindy Bergman, Helyn Goldenberg, Sara Szold, and The Elizabeth F. Cheney Foundation.

Nasher Museum, major individual support for the exhibition is provided by Frances P. Rollins, Marilyn M. Arthur, Trent and Susan Carmichael, Drs. Victor and Lenore Behar, Kathi and Stephen Eason, and Mindy and David Golie. Additional generous support is provided by Deborah DeMott, Nancy Palmer Wardropper, The E. T. Rollins Jr. and Frances P. Rollins Fund, Jo and Peter Baer, Paula and Eugene Flood, Pepper and Donald Fluke, Braddy Van Winkle and Lance Van Winkle, Carolyn Aaronson, Diane Evia-Lanevi and Ingemar Lanevi, Caroline and Arthur Rogers, Angela O. Terry, and Richard Tigner. Major corporate and grant support for the exhibition is provided by the Mary Duke Biddle Foundation, NetApp and the N.C. Arts Council, a division of the Department of Cultural Resources. Additional support is provided by Carolina Biological Supply Company, Duke's School of Engineering, Parker and Otis, Sigma Xi, The Scientific Research Society, Clinical Ambassador, *American Scientist* magazine, and Tech Shop.

Artwork: Alexander Calder, *Blue Among Yellow and Red*, 1963. Painted sheet metal and steel wire, 43 x 63 inches diameter. Museum of Contemporary Art Chicago, The Leonard and Ruth Horwich Family Loan (EL1995.12). © 2012 Terra Foundation, New York / Artists Rights Society (ARS), New York. Photo by Nathan Keay, © MCA Chicago.

Experience

Duke TIP

Field Studies & Institutes



The Duke University Talent Identification Program offers motivated high school students the chance to challenge themselves by taking courses at Duke University or exciting locations around the world. Students study university-level coursework with their gifted peers, prepare for college, and learn from instructors who are experts in the field.

Examples of Field Studies and Institutes:

Reel Expressions: Filmmaking (California)

International War Crimes Tribunals
(Duke University & The Hague, Netherlands)

Tropical Medicine (Costa Rica)

Human Genetics
(Duke University or Eckerd College)

Green Architecture (Duke University)

Leadership (Duke University)

Learn more and apply:

www.tip.duke.edu/fsi
or (919) 681-6519

Need to change your mailing address? E-mail bluedevel@duke.edu

Shin on Nov. 1, 2011. Named Audrey Madeleine Shin... Second child and first son to **Loral Reed Hunt** '97 and Howard H. Hunt Jr. on Sept. 2, 2011. Named Chatham James... Second child and daughter to **Leah Leila Bunce Karrer** Ph.D. '97 and Bradford P. Karrer on Nov. 11, 2011. Named Rachel Raleigh Elizabeth... Second child and first daughter to **Carol Kaplan Tweed** '97 and James Tweed on Dec. 1, 2011. Named Lily Elizabeth... Second child and first son to **Christopher Andrew Daniels** B.S.E. '98, M.B.A. '05 and **Sarah Lambert Daniels** '00, M.E.M. '05 on April 17, 2011. Named William Ryan... Twins, first sons, to **Uma Malati Amuluru** '99 and Jack Theis on May 2, 2011. Named John Rohan Theis and Kiran Adheya Theis... Second child and first son to **Rebecca Gould Brogadir** '99 and Josh Brogadir on March 25, 2011. Named Nathan Samuel... First child and daughter to **Evan Craig Goldstein** '99 and Melissa H. Slivka Goldstein on June 13, 2011. Named Natalie Esther.

2000s

Alice J.P. Rhee '00 has joined Pepper Hamilton law firm in its Detroit office as an associate in the commercial litigation practice group. Previously, she had worked in Washington for Jones Day, representing clients in federal, state, and administrative proceedings.

Vivasvan Soni Ph.D. '00 has been awarded the MLA Prize for a First Book by the Modern Language Association for *Mourning Happiness: Narrative and the Politics of Modernity* (Cornell University Press). The book discusses the idea of happiness as a concept in the 18th century and its relation to modern narrative.

Kelley Hayden Hicks '01 was the youngest person included in *Treasury & Risk's* "40 Under 40" list of outstanding financial executives. Hicks is the director of financial planning and analysis at Pepsi Americas Beverages.

Daniel John Hoffman A.M. '01, Ph.D. '04 has written *The War Machine: Young Men and Violence in Sierra Leone and Liberia* (Duke University Press). He is an assistant professor of anthropology at the University of Washington-Seattle. As a photojournalist, he documented conflicts in southern Africa and the Balkans from 1994 to 1998.

'02 10th Reunion April 20-22, 2012

Shannon L. Mitchell Dahl Ph.D. '04 was part of a team at Humacyte, a Research Triangle Park company that engineered "off-the-shelf" human veins for use in vascular surgeries. *Popular Mechanics* recognized the technology as a breakthrough innovation, and Frost & Sullivan awarded it the 2011 North American New Product Innovation Award in the vascular grafts market. Dahl is the cofounder of Humacyte and serves as senior director of scientific operations.

Taira C. Everett '05 graduated from Howard University in May 2011 with a dual M.D./M.B.A. degree. Currently, Everett is completing her residency in internal medicine.

Andrew R. Schmidt B.S.E. '06 has been promoted to project manager at Mars & Co., a management consulting firm specializing in business strategy. Schmidt recently worked on a series of projects in Japan for a consumer-goods manufacturer.

'07 5th Reunion April 20-22, 2012

MARRIAGES: **Andrew Scott Hecker** '00 to Beth Parr on Oct. 22, 2011. Residence: Washington, D.C.... **Kevin Alexander Klock** '01 to Teresa Taube on July 23, 2011. Residence: Arlington, Va.... **Sarah Nicole Bardinelli** '02 to **Ryan David Gibbs** '02 on Aug. 7, 2010. Residence: New York.... **Caryl Nicole Brzymialkiewicz** M.S. '02, Ph.D. '05 to Paul A. Shelton on Oct. 22, 2011. Residence: Arlington, Va.... **Cara Danielle Hinshaw** J.D. '02 to Bernard F. Norton III on June 25, 2011. Residence: Boulder, Colo.... **Sarah Jean Ordaz** '02 to **Scott Harris Rosenblum** '04 on Oct. 2, 2010. Residence: Pittsburgh.... **Kathryn Randolph Colahan** '06 to **Erik Peter Schmidt** B.S.E. '06 on Aug. 6, 2011. Residence: Chicago.... **Chelsea Ruth Conover** M.E.M. '08 to Justin Robert Barnes on Oct. 1, 2011. Residence: Raleigh.... **Christine Leigh Devore** '08 to **Pearce Daniel Godwin** '08 on Oct. 8, 2011. Residence: Arlington, Va.... **Caroline Elizabeth Mix** '08, J.D. '11 to **Alexander Carroll Stapleton** '09 on Sept. 24, 2011. Residence: Washington, D.C.... **Kristen Laura Molzon** D.P.T. '08 to Timothy Henry on Sept. 24, 2011. Residence: Philadelphia.... **Jane Elizabeth Cherry** M.B.A. '09 to Benjamin Boggess on Oct. 23, 2010. Residence: Bakersfield, Calif.... **Thomas James Hadzor** B.S.E. '09 to Sarah Elizabeth Guthrie on Oct. 1, 2011. Residence: Birmingham, Ala.... **Christian Horacek** '09 to **Ruth Carrie Tucker** '10 on July 9, 2011. Residence: Durham.... **Patricia Margaret Loughlin** '09 to **Griffin Timm Tormey** '09 on Aug. 6, 2011. Residence: Chicago.... **Lauren Catharine Weiler Moore** M.B.A. '09 to Michael Bergeron on May 21, 2011. Residence: Claremont, Calif.

BIRTHS: Second child and son to **Amy Elizabeth Clower** '00 and Jeff Chambless on Nov. 11, 2010. Named Joseph Carlin Chambless... Second child and first son to **Sarah Lambert Daniels** '00, M.E.M. '05 and **Christopher Andrew Daniels** B.S.E. '98, M.B.A. '05 on April 17, 2011. Named William Ryan... First child and son to **Laura Whaley Morrow** '00 and **Jason Eugene Morrow** '01 on Sept. 12, 2011. Named Desmond Lewis... Third child and second daughter to **Benito Luis Rossiti** M.B.A. '00 and Adriana A. Ferrari Rossiti on Sept. 16, 2011. Named Lorena... Second child and son to **Erika Lindgren Smith** '00 and Zachary Smith on July 25, 2011. Named Jackson Eli... First child and daughter to **Albert Blackwell Stieglitz Jr.** '00 and **Amanda Janney Scovil Stieglitz** '00, M.H.S. '04 on Oct. 29, 2011. Named Caroline Kingston... First son to **Britton Elan Redbord Bitterman** '01 and Drew Bitterman on Oct. 1, 2011. Named Shane Jackson... First child and son to **Joshua Allen Gartner** '01 and Le Li Gartner on Sept. 29, 2011. Named Zachary Benjamin... First child and daughter to **John D. Newhouse Jr.** '01 and **Paige Dommerich Newhouse** '02 on Jan. 10, 2010. Named Madison Devin... First child and daughter to **Katherine Gruene Segersten** '01 and Peter H. Segersten on Sept. 8, 2011. Named Caroline Elizabeth... First child and daughter to **Nipun Chhabra** '02 and Nina Verma Chhabra on Sept. 28, 2011. Named Raiya... First child and daughter to **Amy Venter Dameron** '02 and Scott Dameron on Feb. 25, 2011. Named Finley Kate... First child and daughter to

ter to **Nina Ramos Rose** '02 and Rich Rose on June 10, 2011. Named Natalie Hale...First child and daughter to **Piper Reade Scott** '02 and Christopher Burch on July 16, 2011. Named Freya Delphine Burch...First child and daughter to **Gregory Lee Skidmore** '02 and **Emily J. Folinsbee Skidmore** '03 on Sept. 10, 2011. Named Julia Evelyn...Second child and first daughter to **Michael Warren Wick** B.S.E. '02 and **Heather Elizabeth Sharkey Wick** '04 on Oct. 14, 2011. Named Christina Elisabeth...Second child and daughter to **Carey Lowe Rongitsch** '03 and Edward M. Rongitsch on Aug. 3, 2010. Named Vivian Eula...First child and daughter to **Ashley Carlson Dickerson** '05 and Dustin Dickerson on Nov. 11, 2011. Named Emma Charlotte...Second child and son to **Radhika Rible** HS '06 and Fred Rible on April 30, 2011. Named Dylan...First child and son to **Carlos D. Briseno III** B.S.E. '07 and **Elizabeth Vanderslice Briseno** '07 on July 4, 2011. Named Carlos De La Cruz Briseno IV...First child and daughter to **Leann Widmark Jocius** '07 and **Gavin F. Jocius** A.M. '10 on Oct. 19, 2011. Named Lyra Amber...Second child and son to **Jeffrey Martin Thompson** M.B.A. '08 and Elizabeth Hopfinger Thompson on Dec. 5, 2011. Named Beckett James.

2010s

Angela Roach Roberson Th.M. '11 has been elected secretary of the Hood Theological Seminary Alumni Association. Roberson is the pastor of Con-

gregational United Church of Christ in High Point, N.C.

BIRTHS: First child and daughter to **Gavin F. Jocius** A.M. '10 and **Leann Widmark Jocius** '07 on Oct. 19, 2011. Named Lyra Amber...First child and daughter to **Christopher Edwin Breslin** M.Div. '11 and Rachel Breslin on Dec. 4, 2011. Named Noa June.

Deaths

Ethel Nachamson Zeiger '34 of Los Alamitos, Calif., on Feb. 5, 2007.

John S. Hunter '35 of Wyomissing, Pa., on Sept. 28, 2011. He served in the Army during World War II in the European theater, becoming a major. He operated a private medical practice in Shillington, Pa., for nearly 40 years. He is survived by his wife, Grace; a son; a daughter; six grandchildren; and 12 great-grandchildren.

Oscar L. McFadyen Jr. '37, M.D. '41, of Fayetteville, N.C., on Feb. 11, 2007. He is survived by his wife, **Frances Cochran** '43; a daughter; two sons, including **Robert B. McFadyen** M.S. '88; a sister; a grandchild; and two great-grandchildren.

Harry O. Michel Ph.D. '38 of Franklin, Maine, on June 30, 2007. He served as a flight officer in the Army Air Corps during World War II and later

as a medical officer with an Army Reserve MASH unit. He then worked as a civilian research chemist for the federal government until his retirement in 1971. He is survived by a son, a daughter, three grandchildren, and two great-grandchildren.

Archie R. Ayers A.M. '39 of McLean, Va., on July 1, 1993.

Ruth Barton Habbersett R.N. '39, B.S.N. '39 of Media, Pa., on Dec. 1, 2011. She worked at a military base hospital in Virginia and later practiced private-duty nursing in Pennsylvania. She is survived by a son, two daughters, five grandchildren, and seven great-grandchildren.

Frances I. Ruark Lindsey '39 of Statesville, N.C., on Oct. 5, 2011. She was a board member of The Children's Home in Winston-Salem and director of the Bethlehem CEP Day Care Center. She was also chair of Christian social relations of the Women's Society of the United Methodist Church in the Western N.C. Conference. She is survived by her husband, **Julian A. Lindsey** M.Div. '39; four children, including sons **Bryant A. Lindsey** '63 and **Stuart F. Lindsey** '73; six grandchildren; and eight great-grandchildren.

Valla Young Ayers A.M. '40 of McLean, Va., on Feb. 14, 1992.

Jack F. Butler '40 of Williamston, N.C., on Nov. 2, 2011. He served in the Navy during World War II. He later worked as a teacher, band director,

A Tradition of Excellence

We are your place for officially licensed
Duke merchandise.

With thousands of products to choose from,
we offer the largest selection of everything Duke.
Shop with us 24/7 via our online catalog and
place your order securely anytime, day or night.

Browse our online catalog @
www.shopdukestores.duke.edu

016 West Union Building | Box 90850
Durham, NC 27708-0850

One Team. One Common Goal.
To Provide Quality Service & Products to the Duke University Community.



and primary-school principal in the Williamston school system for 30 years. Survivors include a son and a sister.

Anne Russell Gwyn Robertson '40 of Orange, Va., on Oct. 24, 2011. She was a member of the Daughters of the American Revolution and the president of her 50th reunion class at Duke. She was also an active philanthropist who supported organizations such as the Orange Downtown Alliance and the Boys and Girls Club. She established a scholarship fund at the University of Virginia School of Law in her husband's name. She is sur-

vived by a daughter, **Lucy B. Robertson Alexander** '75, and three grandchildren.

Carl Bryant Stanley B.S.N. '40, R.N. '40 of Greenville, S.C., on Aug. 15, 2011. She worked in the Greenville Hospital System for 30 years and taught at its nursing school. She served in various capacities in the Greenville County Medical Auxiliary, including as president. She is survived by her son, four grandchildren, and four great-grandchildren.

L. Roger Williams '40 of Irvington, Va., on Nov. 3, 2011. He spent his career in international

finance. Survivors include a son, a daughter, and two grandsons, including **Jonathan R. Segal** '98.

James C. Chaffin '41, B.Div. '44 of Robbins, N.C., on June 19, 2005.

Mary Elizabeth Griffiths Clarke '41 of Redlands, Calif., on Aug. 24, 2010.

Edward L. Fike '41 of San Diego, on Aug. 26, 2011. After graduating from Duke, he was a lieutenant in the Navy during World War II. He remained in the Navy Reserve until 1963. He was Duke's director of public information from 1948 to 1952 and held various journalism positions nationwide. As editor of the editorial pages for the *San Diego Union-Tribune*, he received three George Washington awards from the Freedoms Foundation. Following retirement, he became a media fellow at Stanford University's Hoover Institute. He is survived by his wife, **Amanda Drake Fike** '41; four daughters; a sister, **Ruth Fike Pittman** '46; a niece, **Lillian Pittman Baldwin** B.S.E. '83, M.S. '85; and 10 grandchildren.

Athalinda Woodcock Russell '41 of Bradenton, Fla., on Jan. 18, 2007. She is survived by her husband, William; two daughters; and four grandchildren.

Margaret Wischmeyer Taylor '41 of Frankfurt, Mich., on Nov. 29, 2011. She was a reporter for the *Dayton Daily News* and freelanced for *The Plain Dealer Sunday Magazine*. She later taught English and journalism at Cuyahoga Community College in Cleveland and remains the only faculty member to have received all of the college's four distinguished awards for excellence. Upon retirement, she was granted the title of professor emerita. She also directed the Cuyahoga Writer's Conference for 16 years. She is the author of *The Basic English Handbook*, which was published in 1995. She is survived by two daughters and a nephew, **Kevin A. Autrey** B.S.M.E. '09.

Robert "Mac" McDonough '42 of Queensbury, N.Y., on Oct. 14, 2011. He served in the Navy during World War II. He was also a special agent with the FBI, a stockbroker with Spencer Trask, and a probation officer with the Warren County and New York State Division of Probation. He is survived by three children, eight grandchildren, and two great-granddaughters.

Rae Ruckel Williams '42 of Fort Walton Beach, Fla., on Aug. 15, 2011. She was the president of Valparaiso Realty and traveled the Southeast, racing her Formula 1 Lotus, for which she became known as "Racing Grandmother." She was active in politics, volunteering for the National Democratic Party in Washington, and later worked as a legislative aide to Florida Rep. James Ward. Survivors include three sons, two daughters, a brother, 10 grandchildren, and nine great-grandchildren.

Eleanor Anne Campbell Caudill '43 of Sarasota, Fla., on July 28, 2011. She was very active in the Kanawha Medical Auxiliary in Charleston, S.C. She is survived by a son, **James W. Caudill** '76; two daughters, **Janet Caudill Cooksey** '70 and **Lucy H. Caudill Tucker** '71, M.D. '76; a son-in-law, **Benjamin H. Cooksey III** B.S.M.E. '69; seven grandchildren; and three great-grandchildren.

How do you want to retire?

Rejuvenate



Extend your years of wellness by finding balance among all aspects of your life. At The Village at Brookwood, our on-site Wellness Coordinator and Life Enrichment Director focus on the six dimensions of wellness — physical, social, vocational, nutritional, intellectual and spiritual — to find the program that works just for you.

The Village at Brookwood — This is how we do retirement.



The VILLAGE

AT BROOKWOOD

1860 Brookwood Ave.
Burlington, NC



Sponsored by
Alamance Regional
Medical Center

800-282-2053

www.VillageAtBrookwood.org

George H. Duncan '43 of Greensboro, N.C., on Nov. 11, 2011. He served during World War II in the Army Air Corps as a fighter pilot in the Pacific. He later worked for Litton Industries, a defense contractor, for 45 years. He is survived by four daughters, eight grandchildren, and two great-grandchildren.

Robert Ellis Godshall '43 of Atlanta, on Jan. 14, 2008. He served in the Air Force prior to founding Globe Oil in 1966, which is now known for its Starvin' Marvin convenience stores. He is survived by his wife, Mildred; two daughters; a son; a stepson; a sister; and four grandchildren.

John E. Rice B.Div. '43 of Atlanta, on Nov. 1, 2011. He served as an Army chaplain in World War II and the Korean War, and as a Methodist minister in the Florida conference for 25 years. He later spent 20 years as an entertainment director in north Georgia. He is survived by his wife, Mary; three daughters; four grandchildren; five great-grandchildren; and a great-great-granddaughter.

Ralph W. Starr '43 of Boulder, Colo., on April 7, 2011.

Edward R. Godwin '44 of Houston, on Oct. 18, 2011. He was a first lieutenant in the Army Air Corps during World War II. He became a mortgage banker in 1949 and was senior vice president and director of Mortgage & Trust Inc. in Houston. He received the first Texas Mortgage Bankers Association Distinguished Service Award in 1972. He was also a founding member of St. George's Episcopal Church, where he served on the vestry and as senior warden. He is survived by his wife, Jackie; two sons; four grandchildren; and six great-grandchildren.

Sarah Lance Griggs '44 of Boyds, Md., on March 12, 2011.

Paul Lanier Ogburn '44, M.D. '46 of Statesville, N.C., on Nov. 12, 2011. He was part of the V-12 Navy College Training Program at Duke, which led him to service in Japan at the end of World War II. After further training at the Mayo Clinic, he worked as a general surgeon at Davis Hospital in Statesville for more than 30 years. He went on several mission trips throughout Central America. He is survived by his wife, **Merlene Greene Ogburn** R.N. '48; five children; seven grandchildren; and 10 great-grandchildren.

Donald W. Ropp '44 of Columbia, S.C., on Aug. 29, 2011. He served in the Army in the Pacific theater during World War II. He later founded and owned Automotive Parts and Equipment Co. He also served on the board of Palmetto Federal Bank of South Carolina. He is survived by two daughters, four granddaughters, and seven great-grandchildren.

Henderson Belk '45 of Charlotte, on Oct. 20, 2011. He served in the Navy during World War II. He then worked for Belk Department Store for 45 years. He was president and professor at Henderson Christian University International. He is survived by his wife, Linda; six children; three stepchildren; a brother; a sister; 17 grandchildren; and five great-grandchildren.

Willis H. Carter '45, M.D. '47 of Fort Worth, Texas, on Oct. 6, 2011. He served two-and-a-half years as chief of surgery at a hospital in Japan during the Korean War and was awarded the Bronze

Star. He then entered private practice in Fort Worth until his retirement in 1993. He was a president of the Texas Urological Society. He is survived by three children, a sister, and six grandchildren.

Edward A. Goddard '45 of West Palm Beach, Fla., on Oct. 15, 2011. He served in the Navy during World War II aboard the USS *Putnam*, which saw action during the battles of Iwo Jima and Okinawa. After working for Goddard Inc., a wholesale electronics company, he was a salesman for Northwestern Mutual Life Insurance. He is survived by four daughters, a sister, 11 grandchildren, and seven great-grandchildren.

Ruth Braswell Jones B.S.N. '45, R.N. '45 of Princeton, N.C., on Oct. 26, 2011. She worked as a nurse at several hospitals, finishing her career as the first director of St. Mary's School of Nursing in Huntington, W.Va. She is survived by three children, a brother, 10 grandchildren, and six great-grandchildren.

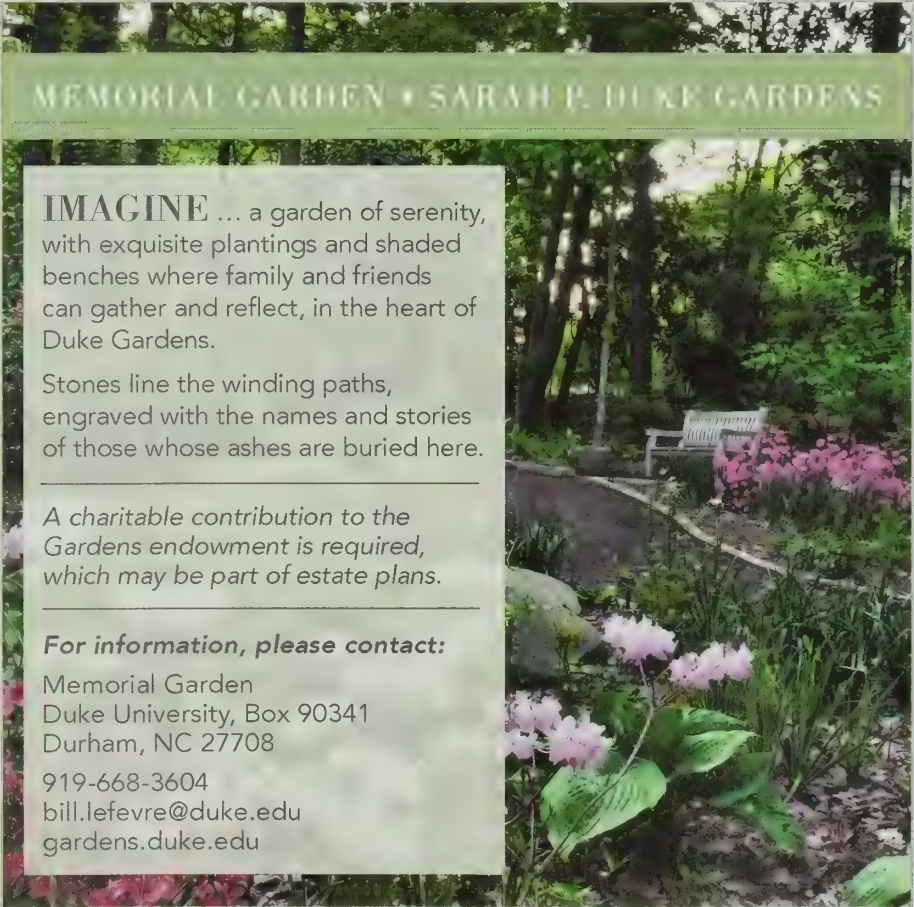
Patricia Mickelsen Kays '45 of Virginia Beach, Va., on Oct. 14, 2011. She worked for the Federal Reserve Board and the Spanish Embassy. She was actively involved with Meals on Wheels. She is survived by three children, a sister, and a grandson.

Betsy Rankin McClure '45 of St. Petersburg, Fla., on Oct. 28, 2011. She taught English in secondary schools and later worked as a guidance counselor at Northeast High School in Oakland

Park, Fla. She also served as the dean of women at Dixie Hollins High School in St. Petersburg. She is survived by four children, including **Jane Sinden Spiegel** '71; three stepchildren; two sisters, including **Ann Rankin Meacham** '49; a niece, **Martha Rankin Scheppe** '78; a nephew, **Willis R. Scheppe** '76; and 11 grandchildren.

Jack G. Robbins '45, M.D. '48, of Durham, on Nov. 6, 2011. He served in the Army during World War II and the Air Force during the Korean War. He had a dermatology practice in Durham. He was also a consultant for the Duke department of dermatology throughout his career. He is survived by his wife, Catherine; a son; a daughter; a brother, **Alan C. Robbins** '58; four grandchildren; and two great-grandchildren.

Walter Scott Jr. '45 of Palm Springs, Calif., on Aug. 18, 2011. He first served as an officer in the Navy during World War II. He later became president of Mrs. Filbert's Margarine and cofounded Mulford, Moreland, Scott & Associates. He was a frequent speaker for the American Management Association and was listed in the Marquis publication, *Who's Who in America*. He also consulted for numerous companies, including West Marine Inc. He is survived by his wife, Helene; two sons, **Stephen W. Scott** '71 and **Christopher M. Scott** '78; two daughters, including **Susan Scott Wheel** '72; a sister; and nine grandchildren, including **Jocelyn Scott Matthews** '96, **Stephen E. Scott** '99, and **Matthew M. Scott** '10.



MEMORIAL GARDEN • SARAH P. DUKE GARDENS

IMAGINE ... a garden of serenity, with exquisite plantings and shaded benches where family and friends can gather and reflect, in the heart of Duke Gardens.

Stones line the winding paths, engraved with the names and stories of those whose ashes are buried here.

A charitable contribution to the Gardens endowment is required, which may be part of estate plans.

For information, please contact:

Memorial Garden
Duke University, Box 90341
Durham, NC 27708
919-668-3604
bill.lefevre@duke.edu
gardens.duke.edu

Lucius G. Gage Jr. '16, M.D. '18 of Waxhaw, N.C., on Sept. 1, 2011. He practiced medicine at the Nalle Clinic in Charlotte, serving as director in the allergy and arthritis department. He is survived by his son, his brother, and a granddaughter.

Jean Moore Goddard '46 of West Palm Beach, Fla., on Jan. 12, 2009. She taught special-education classes at Royal Park Elementary School and science classes at the Dreher Park Science Museum and in private schools. She was active in the Palm Beach Sailing Club. She is survived by four daughters, a brother, 11 grandchildren, and seven great-grandchildren.

May Craigge Jones Kernodle R.N. '46, B.S.N. '46 of Elon, N.C., on Nov. 21, 2011. After graduation, she was head nurse in charge of premature, newborn, and isolated nurseries at Duke Hospital. She was also a member of the Santa Filamina Honor Society and the Sigma Theta Tau International Honor Society of Nursing. She is survived by her husband, **George Wallace Kernodle** M.D. '44; three sons, including **George W. Kernodle Jr.** HS '86; a daughter; two brothers-in-law, **Charles E. Kernodle Jr.** M.D. '42 and **Donald R. Kernodle** M.D. '53; a sister-in-law, **Lucy E. Wilson Kernodle** B.S.N. '58; and 10 grandchildren.

Paul T. Morris M.Ed. '46 of Chattanooga, Tenn., on Sept. 12, 1989.

Ruth B. Williard R.N. '46, B.S.N. '50 of High Point, N.C., on April 29, 2002.

Ann Smoot Cowin '47 of Cleveland, on Jan. 3, 2012. She was the editor of *The Chronicle* while at Duke, and a member of Pi Beta Phi and the Duke cheerleading squad. She is survived by her husband, **Robert E. Cowin** '46; three daughters, including **Lori Matia** '81; two sons; and six grandchildren.

Thomas W. Critchfield HS '47 of Everett, Wash., on Oct. 17, 2011. He served in the Navy Medical Corps during World War II in the South Pacific. He worked as an obstetrician with the Everett Clinic, where he delivered more than 8,000 babies in his career. He is survived by his wife, Vivian; a son; a daughter; five grandchildren; and three great-grandchildren.

William H. Gray '47, LL.B. '48 of Dallas, on Nov. 14, 2011. He served in the Navy during World War II in the Pacific theater. He then worked for the Department of the Treasury in various capacities for 30 years, including as deputy chief counsel in Texas. He later practiced law for the U.S. Bankruptcy Court for the Northern District of Texas. He is survived by his wife, Teel; three sons; two brothers; and seven grandchildren.

James M. "Buddy" Jones Jr. J.D. '47 of Lewisburg, Tenn., on Oct. 7, 2011. He served in the Tennessee Senate for one term. He also served as president and chair of the board at Peoples & Union Bank in Lewisburg. He is survived by his wife, Jeanne; four daughters; five grandchildren; and a great-grandson.

Earle W. Sapp '47 of Fairfax, Va., on Oct. 2, 2011. He had a distinguished career as a captain in the Navy. In 1951, he participated in the SS *Flying Enterprise* rescue mission. He also initiated and di-

rected a project to convert three Navy Reserve ships into the Navy's first oceanographic research ships. He was instrumental in the initial development of towed passive sonar systems, leading to an increase in naval antisubmarine capabilities. His decorations include the Legion of Merit and the Meritorious Service Medal. He is survived by his wife, Ava; four children; a sister; and three grandchildren.

Craig B. Kunkle B.S.M.E. '18 of West Palm Beach, Fla., on Aug. 15, 2011. He worked for 38 years for Pratt & Whitney, a United Technologies company. He was part of the team that designed the SR-71 reconnaissance aircraft, the construction of which required him to spend eight months in Area 51. He is survived by his wife, Barbara; two sons; two daughters; a brother, **Charles W. Kunkle Jr.** '36; a sister-in-law, **Dorothy Gray Kunkle** '36; a nephew, **Kim Walter Kunkle** '76; seven grandchildren; and two great-grandchildren.

H. Ursula Aiken Mason '48 of Rehoboth Beach, Del., on March 8, 2002. Survivors include a daughter and three sons.

John E. Myers '48 of Vero Beach, Fla., on June 7, 2011. He served in the Army Air Corps during World War II and in the Air Force during the Korean War, becoming lieutenant colonel. He later taught in Duval County, Fla., until his retirement in 1988. He is survived by his wife, **Emily Helseth Myers** '50; a daughter; a son; and two grandchildren.

Robert M. Pierson A.M. '48, Ph.D. '51 of Santa Fe, N.M., on May 28, 2011. He worked as a librarian at the University of Maryland. He is survived by his wife, **Dolores Lehmann Pierson** Ph.D. '50.

Norman L. White '48 of Elsinboro, N.J., on Nov. 12, 2011. He served in the Navy Reserve for eight years. He then spent the majority of his career working for the Moulton Ladder Co. in Philadelphia, retiring as general manager in 1989. He is survived by his wife, Gladys; three sons; six grandchildren; and a great-grandson.

Alvin L. Bingham Jr. B.S.M.E. '49 of Greensboro, on Dec. 1, 2011. He served in World War II and was a professional engineer. Most recently, he worked for VF Corp. He is survived by his wife, **Virgie M. Ray Bingham** R.N. '48; a daughter; two sons; five grandchildren; and a great-granddaughter.

Janet Westbrook Blair '49 of Nunda, N.Y., on Nov. 4, 2011. She spent her lifelong teaching career in Dalton and Keshequa public schools. After retirement, she volunteered with the United Methodist Committee on Relief and Habitat for Humanity. She is survived by her husband, Elmore; three daughters; and a son.

Lyman H. Brigham M.F. '49 of Clyde, Texas, on Oct. 31, 2011. He was a forester with the U.S. Bureau of Land Management in Oregon. He served for 20 years in the Navy Reserve, retiring as a lieutenant colonel. He also owned Brigham Antiques & Livery Stable in Baird, Texas. He is survived by his wife, Candy; two daughters; a son; a stepson; three stepdaughters; three sisters; and nine grandchildren.

Nell Bailey Criswell '49 of Gaithersburg, Md., on Oct. 23, 2011. She worked as a personnel specialist for IBM. She is survived by four children, six grandchildren, and a great-granddaughter.

Richard W. "Curly" Gordon '49 of Jacksonville, Fla., on Oct. 23, 2011. At Duke, he was a member of the basketball team and co-captain his senior year. Survivors include a daughter; a stepson, **Hugh T. Nelson IV** '68; a grandson, **James R. Nelson** '00, M.B.A. '07; and a granddaughter-in-law, **Elizabeth Randall Nelson** Ph.D. '09.

Katharine Slaven Levis '49 of Columbus, Ohio, on Sept. 27, 2011. She founded the parent support group Parents-In-Touch and was a commissioned United Church of Christ chaplain. She is survived by her husband, Curt; three children; a brother-in-law, **James B. Davis** '46, '47; nephew **Lant Burk Davis** '76; and four grandchildren.

Elsie Pauline Ligon Nease '49 of Durham, on April 4, 2011. She was a high-school teacher early in her career. Later, she worked as a librarian at Duke's Perkins Library, serving as head of the serials department. She also performed with the Durham Savoyards in several Gilbert & Sullivan operettas. She is survived by her daughter.

Bratislav Zak M.F. '49, D.F. '54 of Marysville, Wash., on Feb. 9, 2011.

William A. Boehling Sr. '50 of Wilmington, N.C., on Sept. 17, 2011. He enrolled at Duke at the age of 16 and was soon thereafter elected class president. He also served as a member of the Virginia Protective Force while he was still in high school, replacing members of the Virginia National Guard who had been sent to war. He is survived by his wife, Marilyn; a daughter, **Rebecca L. Boehling** '77; five sons; and eight grandchildren.

Howard D. Criswell Jr. '50 of Gaithersburg, Md., on Sept. 18, 2011. He served in the Army Air Corps during World War II as the engineer gunner on a B-17. He then spent 13 years as an Associated Press reporter in Charlotte before joining the Kennedy Space Center as a speechwriter. He later worked as a speechwriter for the Senate Judiciary Committee. He is survived by four children, a brother, six grandchildren, and a great-granddaughter.

Jane C. Chivers Greenleaf '50 of New Holland, Pa., on Aug. 29, 2011. She was a master gardener and won awards at the Philadelphia International Flower Show, the largest indoor show in the world. She is survived by four sons and five grandchildren.

Winfred J. "Wink" House '50, A.M. '54, Ed.D. '56 of Burlington, N.C., on Oct. 5, 2011. He was a teacher at Roxboro High School for three years, and then served as principal of Oxford High School. He was also the assistant superintendent of Greensboro public schools for 11 years and a professor of administration and supervision at N.C. A&T State University for four years. Survivors include several nieces and nephews.

William F. Lark B.S.M.E. '50 of Belmont, N.C., on Sept. 21, 2011. He served in the Navy before and after attending Duke, for a combined seven

years of service. He then worked for Duke Power until his retirement in 1980. He is survived by a son, two brothers, three sisters, three grandchildren, and three great-grandchildren.

Sylvia "Sunny" Sommer Moore '50 of Naples, Fla., on April 7, 2011. Survivors include two granddaughters, **Melissa Sommer Dunaway** '02 and **Amanda Durham Dunaway** '03.

Walstein W. Snyder B.Div. '50 of Burlington, N.C., on Aug. 30, 2011. He was the pastor of Bethel and Concord churches in Caswell County and Mount Zion Church in Orange County. Following his ministry, he became the CEO of Elon Homes for Children, a position he held for 30 years. The Elon Homes campus at Elon College was named in his honor. He is survived by a son, two daughters, a sister, eight grandchildren, and six great-grandchildren.

Robert C. Duff '51 of St. Petersburg, Fla., on Sept. 15, 2011. He served in the Marines during World War II. He was also on the basketball team at Duke. He worked as an executive and sales representative in the industrial and advertising fields in New York. He is survived by his wife, Marilyn; three sons; two daughters; two sisters; and four grandchildren.

Jerold G. Gallagher '51 of Green Valley, Ariz., on Nov. 23, 2011. He was a Navy cryptograph analyst during World War II. He later was a banker for 30 years in New York and New Jersey, and ended his career as vice president of First Vermont Bank in Rutland. He is survived by his wife, Donna; two daughters; a son; four grandchildren; and two great-grandchildren.

Joan Schneider Plavnick Kaim '51 of Washington, D.C., on Sept. 30, 2011. She is survived by her husband, Samuel; a son; a daughter; a sister; and two grandchildren.

John N. "Jimmy" Smith Jr. '51 of Raleigh, on Oct. 12, 2011. He served in the Army during World War II. He began his career with Wachovia Bank & Trust as an auditor in Raleigh, later becoming manager of general accounting. He also worked for the Belk Tyler Group as executive vice president and controller, retiring after 23 years. He is survived by his wife, Jeannette; a son, **John N. Smith III** '82; two daughters; a brother; and five grandchildren.

Clarence D. Williams M.Div. '51 of Irmo, S.C., on Sept. 21, 2010. He served in the Army during World War II as a radio operator on a B-17. He later served in the Korean War as a chaplain. He was a United Methodist minister who gave seven churches in South Carolina a combined 57 years of service. He is survived by a son, three daughters, and seven grandchildren.

Elsa Tice Ellis '52 of Orlando, Fla., on Oct. 23, 2011. She devoted her life to creating greater inclusion of disabled persons in community life. She received a National Volunteer Award in 1972 and the Walt Disney World Community Service Award in 1974 for her work with the company she founded, Outlook Nashville. She is survived by her sister, a granddaughter, and a grandson.

William G. Kaelin '52, J.D. '54 of Quechee, Vt., on Aug. 28, 2011. He was an international tax lawyer who worked for the New York firms of Healy & Baillie and Gill & Duffus before starting his own practice. He is survived by five children, including

William G. Kaelin '79, M.D. '83, **Michael P. Kaelin** '81, J.D. '84, and **Thomas A. Kaelin** '84; a sister; and 15 grandchildren, including **Catherine A. Kaelin** '10 and **Michael P. Kaelin Jr.** '15.

Lester F. Alexander Jr. '53 of Fairhope, Ala., on Oct. 22, 2011. He was a pilot in the Air Force. He is survived by his fiancée, Julie; two sons; a brother; and three grandchildren.

William C. Evans Jr. M.D. '53 of Gainesville, Fla., on Nov. 27, 2011. He served in the Army as a captain in the Medical Corps. He was a family practitioner, until his retirement in 1991, and a member of the Alpha Omega Alpha Honor Medical Society. He is survived by his wife, Cynthia; two daughters; three sons; a brother; and six grandchildren.

Willard B. Gatewood Jr. '53, A.M. '54, Ph.D. '57 of Fayetteville, Ark., on Oct. 23, 2011. He spent most of his 40-year academic career at the University of Arkansas, teaching U.S. history, with an emphasis on African-American history. He served as the chancellor of the school from 1984 to 1985. He also wrote or cowrote 12 books, including *The Governors of Arkansas*, and was president of the Southern Historical Association. He is survived by his wife, Mary, and two children.

Hattie L. Dietz Heiman '53 of Dumas, Ariz., on Nov. 24, 2011. She was a freelance writer and a retailer in the clothing business. She was also a member of the Dumas Chamber of Commerce and

past president of the Southeast Arkansas Sisterhood. She is survived by a son and a daughter.

Fred A. Hill M.Div. '53 of Salisbury, N.C., on Sept. 19, 2010. He was a United Methodist minister for 47 years. He is survived by his wife, Anna; a son; four daughters; 14 grandchildren; and four great-grandchildren.

Jon P. O'Donnell '53 of West Palm Beach, Fla., on June 13, 2011. He majored in political science at Duke and was a member of Sigma Phi Epsilon. Survivors include two daughters.

Dora A. Drew Scott '53 of St. Louis, on Feb. 21, 2011.

Ernest H. Smotherman M.Div. '53 of Huntsville, Ala., on July 13, 2010. He served in the Navy during World War II as a radioman on a bomber plane. He became a Methodist minister after the war and served several churches across North Carolina. He retired to Moulton, Ala., in 1989 but remained active in the ministry. He is survived by his wife, **Arnette Steele Smotherman** M.R.E. '52; a daughter; and three granddaughters.

James L. Beaty B.Div. '54 of Savannah, Tenn., on Nov. 9, 2011. He was a minister at the Savannah First United Methodist Church. He is survived by his wife, Sue; a son; a daughter; two sisters; a brother; four grandchildren; and five great-grandchildren.



Retire To A Place You Know And Love

- Carefree gracious apartment and cottage living
- Renowned cultural, educational, fitness & wellness programs
- Trusted Duke directed, on-site healthcare



Premier Retirement Living Since 1992

2701 Pickett Road, Durham, NC 27705
919.490.8000 • 800.474.0258

www.forestduke.org



John N. Christie Jr. '54, M.D. '58 of Cashiers, N.C., on Aug. 25, 2011. Survivors include a son, **Norton B. Christie** Ph.D. '88.

Lyndon O. Sikes '51 of Anchorage, Alaska, on Sept. 6, 2011. He served in the Army during the Korean War and later worked as a chemist at the Arctic Health Research Center, analyzing the nutritional value of native foods. He also purchased a small frozen-pizza manufacturing company, which he operated for 10 years. He was an accomplished singer and a member of the Chapel Choir in his time at Duke. He is survived by his wife, Beverly; two sons; a sister; a brother; and three grandchildren.

Margaret Hill Upton '54 of Sarasota, Fla., on Oct. 29, 2011. Survivors include her husband, Thomas, and a daughter, **Ruth Anne Upton** B.S.E.E. '87.

Frederick R. Crawford B.S.M.E. '55 of Mobile, Ala., on Oct. 16, 2011. He was a captain in the Air Force and was vice president of Mobile Gas Service Corp. He is survived by his wife, Olivia; two sons; a sister, **Virginia Crawford Harris** '51; and two grandchildren.

Frederick W. Haeussler M.F. '55 of Savannah, Ga., on Oct. 28, 2011. After Duke, he served as a special investigations agent in the Air Force. He then began a 37-year career with Union Camp Corp., becoming regional land manager of more

than a million acres of timberland. He was elected president of the Society of American Foresters in 1985. He was inducted into both the Georgia and Alabama Forestry Halls of Fame. He is survived by his wife, Carol; three sons; and five grandchildren.

Norwood Jack King B.S.C.E. '55 of Los Angeles, on Oct. 21, 2011. He served in the Air Force for 23 years as both a navigator and a civil engineer, becoming lieutenant colonel. He then practiced civil engineering in California until his retirement in 2002. He is survived by his wife, Jan; a daughter; a son; a brother; and two grandsons.

Frank E. Wier B.Div. '55 of Sevierville, Tenn., on Oct. 12, 2011. He served pastorates in North Carolina and Tennessee and was an associate editor at the Methodist publishing house for many years. He is survived by two sons, two brothers, two sisters, a granddaughter, two grandsons, and a great-grandson.

Samuel K. Carter '56 of Pfafftown, N.C., on Dec. 10, 2011. He served in the Army during the Korean War before beginning a 31-year career with Piedmont Airlines in North Carolina. He retired as assistant vice president, computer and communication services in 1989. He is survived by his wife, Elizabeth; two daughters; three grandchildren; a sister; and two brothers.

James K. Davis '56, M.D. '60 of Newport News, Va., on Jan. 16, 2012. He majored in chem-

istry while at Duke and stayed to complete medical school four years later. He was a member of Delta Tau Delta and often visited the Virginia Symphony Orchestra in Norfolk. He is survived by his wife, **Nancy Pennington Davis** R.N. '58; three sons; and a daughter.

John D. Knotts '56 of Port St. Joe, Fla., on Oct. 6, 2011. He played football at Duke, helping the Blue Devils win three ACC championships. He later served as administrative assistant in the football office for six years. He is survived by his wife, Patsy; two children; a brother, **Ernest M. Knotts** '47; and a sister-in-law, **Eleanor Brimm Knotts** '47.

Elizabeth H. Davis Usher '56 of Savannah, Ga., on Aug. 16, 2011. She was a member of the Women's Auxiliary of the Georgia Medical Society and was involved with the Junior League of Savannah. She was chair of Duke's Alumni Admissions Interviewing Committee from 1981 to 1983. She is survived by five children, a sister, and nine grandchildren.

John C. "Bill" Thompson '57, L '60 of Pasadena, Calif., on Oct. 24, 2011. While at Duke, he was on the football team and was an Academic All-American. He began his career in the management training program of Carnation Co., later holding several executive positions, and was elected to the company's board of directors. He also served as executive director of the Aloha section of the Professional Golf Association in Hawaii. He is survived by his wife, **Martha R. Harris Thompson** '57; a daughter; a son; two brothers; and two granddaughters.

Geoffrey Evans '58 of Pompano Beach, Fla., on Sept. 18, 2011. He was an Episcopal priest for 37 years. He was also a missionary in El Salvador and assisted in the chartering of planes for the Freedom Flights from Cuba to Miami. He is survived by his wife, Marjorie; two stepsons; a sister; and two grandchildren.

David L. Trout Ph.D. '58 of Silver Spring, Md., on Aug. 31, 2011. He worked as a researcher in the human nutrition department of the USDA Agricultural Research Service for 27 years. He is survived by his wife, Jane; two sons; a daughter; and five grandsons.

Herbert E. Watson '58 of Winter Park, Fla., on Oct. 28, 2011. He owned and operated Watson Tile Distributors for 35 years. He is survived by his wife, Barbara; a son; three daughters; two sisters; a brother; and 10 grandchildren.

Donald E. Beck '59, M.F. '60 of Mills River, N.C., on Oct. 29, 2011. He served in the Marine Corps, after which he worked as a forest ecologist for the U.S. Forest Service until his retirement in 1995. He is survived by his wife, Helen; two sons; a brother; a sister; and two granddaughters.

Nancy Green '59 of Columbus, Ohio, on Nov. 19, 2011. She began her career as a high-school English teacher and later became director of supplementary and special education at the Center of Science and Industry. She is survived by her sister, **Louise Green Patikas** '61.

William T. Grimsley Jr. HS '59 of Green Valley, Ariz., on July 20, 2011. He served in the Navy during World War II and then practiced family medicine in Guilford County, N.C., for 35 years. He also



Durham's Favorite Destination

Washington Duke Inn & Golf Club

3001 CAMERON BOULEVARD, DURHAM, NC 27705
800.443.3853 919.490.0999 WASHINGTONDUKEINN.COM

Follow us on Facebook and Twitter

served as a volunteer with USAID, first in South Vietnam in 1966, then in Thailand in 1979. He was a representative in the N.C. legislature for two years. He is survived by his wife, Esther, and a sister.

Walter E. Hess II '59 of Savannah, Ga., on Dec. 24, 2011. After serving in the Navy, he worked in commemorative award sales for Balfour and the Robins Co. until his retirement in 2002. He is survived by his wife, **Helen S. Locke Hess** '60; three daughters, including **Julie Hess Farnham** '83 and **Laura Hess Ubben** '84; two sons-in-law, **Stuart T. Farnham** '83 and **Jeffrey W. Ubben** '83; and six grandchildren, including **Elizabeth S. Farnham** '13 and **Josephine M. Ubben** '15.

Gabrielle Sollo Swofford '59 of Charlottesville, Va., on Oct. 5, 2011. She was a mathematics teacher in Fairfax County, Va. She also served as a trainer for seeing-eye dogs. She is survived by her husband, Ralph, and a daughter.

Thomas C. Lee '60 of Redwood City, Calif., on Oct. 10, 2009.

Robert S. Moore M.A.T. '60 of Danbury, Conn., on Oct. 24, 2011. He served in the Army from 1955 to 1957. He taught English at Wilton High School in Wilton, Conn., for 26 years. He also led and performed in theater productions and was a certified piano tuner. He is survived by his wife, Peggy; four children; and 13 grandchildren.

Malcolm O. Partin A.M. '60, Ph.D. '67 of Davidson, N.C., on Oct. 12, 2011. He was a James B. Duke Scholar and a Fulbright Scholar whose dissertation was published by Duke University Press. He taught history at Davidson College for 34 years until his retirement in 2006. At Davidson, he received the Omicron Delta Kappa Outstanding Teaching Award and was elected secretary of the Davidson College faculty, a position he held for 24 years. He is survived by his sister and his brother.

Amos O. Clark Ed.D. '62 of Greenville, N.C., on Oct. 10, 2011. He served in the Navy during World War II. He began teaching English in Wilmington, N.C., in 1950 and later became a teacher and principal in the New Bern city schools. He was also a faculty member in the School of Education at East Carolina University until his retirement as professor emeritus in 1989. He is survived by a daughter, a son, and his twin sister.

Lloyd G. Hunsucker B.Div. '62 of High Point, N.C., on Nov. 1, 2011. He served in the Navy during World War II. He was ordained as an elder in the United Methodist Church, serving numerous cities across North Carolina. He later became superintendent of the Albemarle district of the United Methodist Church. He is survived by his wife, Bobbie; two daughters; three grandchildren; and three great-grandchildren.

Robert S. Pless '62 of Lexington, Va., on Nov. 17, 2011. He began his career practicing general law and became lead counsel for Larus & Brother Co. He then practiced law with Lane Ltd. until his retirement in 2002. He is survived by his wife, Kay; a son; and two grandchildren.

William R. Villers M.Div. '62 of Lost Creek, W.Va., on Sept. 27, 2011. He served in the Air

Force during the Korean War. He was a United Methodist minister in West Virginia for 35 years. He also served as campus minister at Marshall University and West Virginia University. He is survived by his wife, Karen; two daughters; a sister; and six grandchildren.

Sylvia Peck Watson '62 of Holly Springs, N.C., on Oct. 10, 2011. She worked as an English teacher, a guidance counselor, and an administrator in the Charlotte-Mecklenburg school system. She is survived by her husband, Vernon; a daughter; a son; a brother; and eight grandchildren.

Louise Currence Christensen P.T. Cert. '63 of Charleston, W.Va., on Jan. 7, 2012. She was a physical therapist at the UNC Hospitals, West Virginia Rehabilitation Center, Charleston General Hospital, and several other health-care facilities. She also volunteered at the Hubbard Hospice House in Charleston, W.Va., as well as Habitat for Humanity. She is survived by her husband, David, and three sisters.

Donald F. Funderburk M.Div. '63 of Lake Junaluska, N.C., on Oct. 7, 2011. He served in the Navy as a dental technician for four years. He later became a United Methodist pastor, giving 36 years of service to churches in North Carolina and South Carolina. He is survived by his wife, Mary; a son; a daughter; a sister; and five granddaughters.

James C. Kimberly Ph.D. '63 of Portland, Ore., on Nov. 3, 2011. He served in the Army for two years, after which he entered academia and taught at Stanford University, Emory University, and the University of Nebraska-Lincoln. During the early 1970s, he was program director for basic research in sociology at the National Science Foundation in Washington, D.C. He was a published poet and an artist, and his paintings were exhibited in several shows across the Midwest. He is survived by his wife, Barbara; a daughter; and two sisters.

Joan M. Pierce Battle A.M. '64 of Raleigh, on Nov. 6, 2011. She taught at various levels in Alaska and North Carolina schools, concentrating in English. She was also the first state supervisor of English for the N.C. Department of Public Instruction. She is survived by her husband, Robert; three children; and two grandsons.

Jesse H. Brown Ph.D. '64 of Omaha, Neb., on Nov. 21, 2011. He was an Old Testament scholar and teacher who assisted with translations of the Dead Sea Scrolls while a student at Duke. He is survived by his wife, Kathy; two sons; a daughter; two stepchildren; and a grandson.

Thomas J. Howard M.Div. '64 of Winston-Salem, on Nov. 5, 2011. He served in the Army during World War II, seeing action in both the European and Pacific theaters. Following the war, he became a United Methodist minister and was keen on mission work, serving in several Latin American countries. He is survived by his son, two daughters, two brothers, a grandson, and a great-granddaughter.

William D. Sabiston III B.Div. '64 of Durham, on Nov. 7, 2011. In 1965, he was ordained an elder in the North Carolina Annual conference of the United Methodist Church. For the next 46 years, he served appointments in various counties across

North Carolina. He was the founding minister of the St. Andrews United Methodist Church in Garner, N.C. He is survived by his wife, Norma; a daughter; a son; a sister; and a grandson.

Patricia M. Bradsher Vogel '65, A.H.C. '79 of Phoenix, on Nov. 4, 2011. Most recently, she was the CEO of Barrow Neurosurgical Associates in Phoenix. She also had a pet therapy program that entailed visiting local children's hospitals. She is survived by a son; a daughter; a sister; a brother, **Arthur Brown Bradsher Jr.** '81; and a sister-in-law, **Karen Kuehnle Bradsher** '80.

James P. Alexander '66, J.D. '69 of Birmingham, Ala., on Nov. 21, 2011. He was a partner at Bradley, Arant, Rose & White for 38 years. He taught employment law at the University of Alabama School of Law for 21 years. Most recently, he was a founder of and lawyer at the Birmingham office of Littler Mendelson. He was also a board member of the Civil Rights Institute in Birmingham. He is survived by his wife, **Jeanne Banerman Alexander** '66; two daughters, **Rene L. Alexander** '98 and **Amy L. Alexander** '01; a sister; and two grandsons.

George F. Brodie '66 of Raleigh, on Nov. 4, 2011. After Duke, he enlisted in the Army and served in South Korea and the Panama Canal Zone. He worked in retail management until 1981, when he joined the staff of Gov. James Hunt in the Office of Citizen Affairs. He is survived by his wife, Meriel.

Harry A. Nurkin '66, M.H.A. '68 of Charlotte, on Oct. 13, 2011. Upon graduation from Duke, he received a fellowship to Baptist Memorial Hospital in Memphis, Tenn. He was president and CEO of the Carolinas Medical Center and the Carolinas Health Care System, which, under his tenure, grew to be the third-largest public health-care system in the U.S. He received the 1991 Top Management Award for Charlotte sales and marketing executives and the 1996 Service to Mankind Award by the Leukemia Society of America, among other accolades. He is survived by his wife, Elizabeth; seven children; a sister, **Rita Nurkin Randall** M.Ed. '69; a brother, **Sidney J. Nurkin** B.S.E.E. '63, LL.B. '66; several nephews, including **Andrew C. Nurkin** '03, **John W. Nurkin** '91, J.D. '94, and **Tate M. Nurkin** '94; and four grandchildren.

Robert L. Hancock M.H.A. '67 of Williamsburg, Va., on Oct. 23, 2011. He worked for the Hospital Corp. of America, spending most of his career as administrator of Chippenham Hospital in Richmond, Va. He later founded a home health-care agency. He is survived by three daughters, two stepsons, and three grandchildren.

Thomas L. Hart M.F. '67 of Huntsville, Texas, on May 22, 2009. He worked for Champion International Corp., a paper and wood products company, for 26 years. He was an elder at First Christian Church in Huntsville. He is survived by his wife, Sharon; a daughter; a son; two sisters; and five grandchildren.

Kathleen Green Kinkead '68 of St. Petersburg, Fla., on Oct. 22, 2011. She worked for several years at Duke University's medical center as a surgical scrub technician. She later worked as a

medical transcriptionist and as a personal assistant to Robert Joffrey, a founder of the Joffrey Ballet. She is survived by her husband, **Robert C. Powell M.D.** '72, Ph.D. '74; a sister, **Martina Green O'Brien** '70; and a brother.

William D. Blair M.H.A. '69 of Farmington, Mo., on Nov. 6, 2011. He served in the Navy prior to attending Duke. Most recently, he was CEO of Parkland Health Center. He was also past chair of the Missouri Hospital Association board. He is survived by his wife, Helen; three daughters; a brother; a sister; and four grandchildren.

William A. Gardner Jr. HS '69 of Washington, D.C., on Oct. 2, 2011. At the University of South Alabama College of Medicine, he served 21 years as professor and chair of the department of pathology. He was president of the Association of Pathology Chairs and the U.S. and Canadian Academy of Pathology. In 1996, he received a Fulbright Award to the Slovak Republic. He later became president and CEO of the International Registry of Pathology. He is survived by his wife, Ann; three children; a sister; and seven grandchildren.

Anne Workman '69 of Decatur, Ga., on Sept. 2, 2011. She served DeKalb County, Ga., for 35 years as a judge, the first woman in her county to do so. She was a senior judge for the Superior Courts of Georgia, a member of the Board of Governors of the State Bar of Georgia, and a member of the investigative panel of the State Disciplinary Board of the State Bar of Georgia. She is survived by a brother and a sister.

John L. Moore Jr. B.S.E. '70 of Clemson, S.C., on Oct. 11, 2011. He was a civil engineer with Duke Energy for 41 years. He is survived by four sons, a brother, two sisters, and four grandchildren.

Thompson M. Roach II '70 of Lexington, Ky., on Sept. 2, 2011. He operated his family's Parrish Hill Farm in Midway, Ky. He and his father were co-breeders of the 1999 Horse of the Year and Kentucky Derby and Preakness Stakes winner, Charismatic. He also served as director of the Thoroughbred Club of America. He is survived by his wife, Robyn; two daughters; two sisters; a brother; and a grandson.

Gary K. Schoonover B.S.E. '70 of Palo Pinto, Texas, on Feb. 27, 2011.

Horace L. McSwain III '71 of Macon, Ga., on Sept. 7, 2011. He served in the Air Force in Biloxi, Miss., Guam, and Andrews Air Force Base in Maryland as an assistant staff judge advocate. Most recently, he was practicing law in Macon. He is survived by his wife, Gloria; three daughters; and a sister.

Craig R. Irish '72 of Rocky River, Ohio, on Oct. 13, 2011. He is survived by his wife, Kimberly; two daughters, **Elizabeth Irish Nelson** Ph.D. '09 and **Meredith Irish Peetz-Larsen** '00; two sons-in-law, **James R. Nelson** '00, M.B.A. '07 and **Niels C. Peetz-Larsen** '00; and two grandchildren.

Ellin E. Malloy Christensen '73 of Downers Grove, Ill., on Sept. 19, 2011. She is survived by her husband, Jerry, and a daughter.

Kurt D. Winterkorn '73 of Springfield, Va., on March 19, 2010. Survivors include his wife, Nancy, and three daughters.

Marci Kramish Campbell '74 of Durham, on Dec. 14, 2011. She was a member of the Lineberger Comprehensive Cancer Center and program leader for cancer prevention and control. She was also the codirector of the LIVESTRONG Survivorship Center of Excellence at the Lineberger Center. She is survived by her husband, **Thomas H. Campbell Jr.** '70; two sons; a daughter; her parents; and a granddaughter.

John K. Hill '75, A.M. '90 of Carrboro, N.C., on Aug. 23, 2011. After practicing criminal law in Raleigh, he established, directed, and taught in the paralegal studies program at Durham Technical Community College. He is survived by his wife, Michelle, and a brother.

John H. Lavender B.H.S. '76 of Portage, Mich., on Dec. 16, 1996. Survivors include his wife, Cheryl.

Marilyn Jane Devine J.D. '79 of Goodlettsville, Tenn., on Nov. 8, 2011. She practiced law in legal services and immigration. She is survived by her partner, Sandy; a daughter; her parents; a brother; and a sister.

Susan J. Mazzola Ganz '80 of Boston, on Jan. 10, 2012. She first worked for Sullivan & Cromwell in trusts and estates. In 2005, she began practicing law for the Court Appointed Special Advocate Association (CASA) as a guardian ad litem, where she represented abused and neglected children within the Massachusetts welfare system. She is survived by her husband, Bryan; three daughters; and two brothers, including **Domenic E. Mazzola** B.S.E. '83.

Steven A. Tilley M.F. '81 of Denton, Md., on Sept. 7, 2011. He worked for the state of Maryland's Department of Natural Resources as a forest pest manager. He is survived by his daughter and his parents.

James E. Weiel Ph.D. '85 of Raleigh, on Nov. 22, 2011. He completed his postdoctoral fellowship in pharmacology in the Nobel Prize-winning lab of Edwin Krebs at the University of Washington-Seattle. He studied diabetes, obesity, and metabolic alterations associated with anti-HIV therapies. He worked for GlaxoSmithKline and was most recently employed by Metabolon in Research Triangle Park. He is survived by his wife, Terri; a son; a brother; and a sister.

Mary E. Musgrave Blasiak Ph.D. '86 of Greenfield, Mass., on Aug. 11, 2011. She was a past president of the American Society of Gravitational and Space Biology and is the first person to ever grow plants seed-to-seed in space. She also headed the University of Connecticut's department of plant science and landscape architecture. She is survived by her husband, **John Blasiak** Ph.D. '89; two sons; a brother; and two sisters.

Margaret Mary "Peggy" Nemec-Groth A.M. '88 of Cleveland, on Dec. 8, 2011. She was a member of the Peace Corps and a Roman Catholic Marian group, the Schoenstatt Movement, in Val-

endar, Germany. She is survived by her husband, Ulrich; her parents; and two sisters.

Sophie Elizabeth Godwin Sawyer M.B.A. '88 of Lafayette, La., on Sept. 22, 2011. She worked for American Airlines in Dallas and Bank of America in both Atlanta and Houston. Most recently, she was CEO of Pre-Stress Concrete in Lexington, Ky. She is survived by two daughters, her parents, a sister, two brothers, and a grandmother.

Edward D. Light B.S.E. '89, M.S. '97 of Durham, on Dec. 16, 2011. He worked for 22 years at Duke, where he conducted research in real-time 3D ultrasound imaging and jointly held four patents. He was a member of the Institute of Electrical and Electronics Engineers and the American Association of Woodturners. He volunteered much of his time at Forest View Elementary School in Durham. He is survived by his wife, **Anne E. Smyrski Light** '89, A.M. '01; a daughter; his father; two brothers; and cousins **Matthew J. Cubstead** '90 and **Caroline Elizabeth Light** '91.

Luis G. Pereira M.B.A. '91 of Midland, Mich., on Oct. 24, 2011. He worked for Dow Chemical, originally Rohm & Haas, for 25 years. He is survived by his wife, Stephanie; two children; four brothers; and a sister.

Cynthia Ann O'Neal '96, J.D. '99 of Zebulon, N.C., on Jan. 25, 2012. O'Neal was the general counsel to Lt. Gov. Walter Dalton and was the first black woman to be elected to a three-year term to the Council of the North Carolina Bar Association Construction Law Section. She received the Marshall Memorial Fellowship and the *Triangle Business Journal* "40 Under 40" Leadership Award.

Martin E. Anderson Ph.D. '97 of Bothell, Wash., on Oct. 17, 2011. He worked for the Philips Electronics ultrasound research team, where he helped create the world's most powerful ultrasound transducer. He was active in the work of Imaging the World, an NGO that develops technology for medical practice in Africa. He is survived by his wife, **Rachel Pearce Anderson** A.M. '94; two sons; his parents; a brother; and a sister.

Benjamin N. Cittadino III '99 of Norfolk, Va., on Jan. 14, 2012. He was a designated naval aviator and flew 58 combat missions over Afghanistan. He was awarded the Meritorious Service Medal, Strike Flight Air Medals, two Navy Commendation Medals, and two Navy and Marine Corps Achievement Medals. In 2011, he performed in the Super Bowl flyover. He is survived by his wife, Helen; a son; his mother, **Joan Schweickart Rice** B.S.N. '70; his father, **Benjamin N. Cittadino** '70; his stepparents; a sister; and a brother.

Michael C.J. Rorie '00, M.A.T. '03 of Centreville, Va., on July 30, 2010. After Duke, he became a teaching intern at the International School in Tel Aviv, Israel. He was a James Madison Fellow for the State of Virginia in 2001, an award for current and future secondary-school teachers of American history. Most recently, he taught at Chantilly High School in Fairfax County, Va. He is survived by his parents, a brother, two sisters, and his grandparents.

Daniel S. Peake '05 of Alpharetta, Ga., on Sept. 22, 2011. He is survived by his parents and his brother.

Douglas J. Washing HS '06 of Sylvania, Ohio, on Oct. 16, 2011. He served as a missionary in Peru, where he rendered medical and pathology services. He is survived by his mother, two brothers, and a grandmother.

Allison Marie Immormino '07 of Novelty, Ohio, on Oct. 18, 2011. She is survived by her parents, a brother, and her grandparents.

Constantine A. Paras B.S.E. '07 of Cleveland, on Dec. 12, 2011. He is survived by his parents, a brother, and his grandparents.

Raul S. Buelvas III '15 of Savannah, Ga., on Dec. 25, 2011. He founded Teens Hope, an organization providing entertainment and emotional support for hospitalized youth. He is survived by his parents, including his father, **Raul S. Buelvas Jr.** '88; his sister; his grandparents; and a great-grandmother.

Political Science Professor Lewis

John David Lewis of Durham died on Jan. 3, 2012. After a 25-year career in business, he received his Ph.D. in classics in 2001 at the University of Cambridge. He was a visiting associate professor in the Philosophy, Politics, and Economics Program at Duke. He was also an adjunct associate professor of business at UNC-CH.

Lewis lectured internationally and wrote three books—*Nothing Less than Victory: Decisive Wars and the Lessons of History* (Princeton University Press); *Early Greek Laughers* (Bristol Classical Press); and *Solon the Thinker: Political Thought in Archaic Athens* (Duckworth Press)—as well as many other publications in academia and in the popular press. He was a frequent lecturer at Objectivist and non-Objectivist conferences throughout his career.

Survivors include his wife, Casey.

Cell Biology Professor Wright

Jo Rae Wright of Durham died on Jan. 11, 2012. After receiving a Ph.D. in physiology from West Virginia University, Wright studied at the University of California, San Francisco, where she did a postdoctoral fellowship under one of the leading lung researchers in the country, John A. Clements. She joined the Duke faculty in 1993 as an associate professor and began working to provide graduate students with professional training programs. She was honored twice with the Excellence in Basic Science Teaching Award at Duke.

She was appointed associate dean for graduate programs in 2000, vice dean of basic sciences in the medical school in 2002, and dean of the Graduate School in 2006.

Her research was critical to understanding how the lungs stay protected from airborne infections. For her work, she received the American Physiological Society's Walter B. Cannon Award for lifetime achievement in 2005. In 2008, she became president of the 18,000-member American Thoracic Society.

A fellowship in her name recognizes one Duke Ph.D. student in the biomedical sciences and one in the natural sciences whose research shows particular creativity and promise.

Survivors include a godchild.

classifieds

ACCOMMODATIONS

ALUMNI RETIREMENT RENTAL APARTMENTS being considered near campus by major developer. For information email us at alumniresidences@gmail.com. Include university name and year graduated.

Florida, Sanibel Island: Beachfront condo, spectacular views. Two bedrooms/2 baths. Pool. pthomas22@aol.com, bell@aiany.org

Beautiful townhouse with terrace in **Cote D'Azur**, centrally located in the historic city. 20 mins from Nice. Sleeps 6 people.

**email for pictures/info kirstenarrix@yahoo.com

PARIS, SW FRANCE, PROVENCE, ITALY.

Comfortable apartments, homes, chateaux. 503-219-9190

Rental weekly/monthly—2000 sq ft older home, period furniture, hardwood floors, sleeps 7, large yard with brick bar-b-q pit, small, sleepy southern Va. town—off 85N—one hour from Duke. Ideal: rest, study groups, honeymoon or family gatherings. 919-266-1150

Pawleys Island, South Carolina. DeBordieu Colony (www.DeBordieu.com). OCEAN-FRONT VILLA. NO MONEY DOWN. Assume share of existing loan. Three 3-month shares available. 2500sf, 4bdms., 4.5 baths. Request price/share, monthly expenses, rental history, and virtual walk-through at beachvillano1@aol.com.

MARTHA's VINEYARD: Classic summer cottage. TV-free but WiFi-enabled. ecarmichael@usa.net

Architect designed 3br 4b home with attached three car carport **Sky Valley, GA**, 90 miles ne Atlanta, 10 miles to Highlands, NC. 3600 ft elevation, view of golf course, Rabun Bald, from all rooms and two porches. Finished cedar inside and out. Bedrooms with built in drawers, large closets. walk in storage. Furnished \$360,000, 10% deduction Duke Alum. Picture on request.

Five ten (10) acre wooded lots (\$89,975 +/-) on stream in Orange County only 25 miles from Duke between Mebane and Chapel Hill 4+ miles from I-40/I-85 on Mebane Oaks Road. John M. Jordan, '58, Saxapahaw, NC 27340, (336) 376-3122 (work), (336) 214-3650 (mobile), (336) 376-3132 (home), john@jordanproperties.com

Paris: Marais. Luxury rental in center of Paris. Close proximity Picasso Museum, Centre Pompidou and other historical sites as well as gourmet shops of Rue de Bretagne. See owner's website at www.parischapon.com.

MISCELLANEOUS

Your Mager in Germany! Duke MBA; Held senior executive positions (President, General Mager, CFO) in manufacturing and distribution; Currently managing a company in southeastern part of the US; Dual Citizenship (USA, German Native); Looking for a new opportunity in Germany; Reply to Germany8453@aol.com

MicrodermaMitt Delivers Younger, Smoother and Radiant Skin Instantly! 100% Natural-Dermatologist Recommended www.microdermamitt.com

Get Tax Advice and Preparation from a CPA and Duke alumnus. Many of my clients are Duke alums nationwide and overseas. For a free tax consultation, contact Cabin Kim: cabin@cabinkim.com, 630-578-5858.

Date Smart Meet other smart singles from outstanding schools. Join the Right Stuff, the "go to" site for Ivy League dating... All ages. www.rightstuffdating.com 800-988-5288

The Right Stuff

CLASSIFIED ADVERTISING

Get in touch with 100,000+ potential buyers, renters, and consumers through *Duke Magazine Classifieds*.

Rates: \$3.00 per word, minimum \$30

Additional fees:

- Special typeface treatment (bold, larger font size, etc.): \$10.00 per ad
- Electronically submitted logo or art: \$20.00 per ad

Requirements: All classified ads must be typed or printed legibly with the following information: name, billing address, phone number, e-mail address, ad text, ad section (For Sale, etc.), and the number of issues in which the ad will run. A form for ad submission is available on the advertising section of www.dukemagazine.duke.edu or by e-mailing dukemag@duke.edu.

Payment: All ads must be prepaid. Accepted payment forms: check, Visa, and MasterCard. No orders taken over the phone, except by fax.

Send completed form with payment or payment information to: *Duke Magazine Classifieds*, Box 90572, Durham, N.C. 27708.

Deadlines:

July-August 2012 issue: May 1, 2012
September-October 2012 issue: July 2, 2012
November-December 2012 issue: September 1, 2012
January-February 2013 issue: November 1, 2012
March-April 2013 issue: January 2, 2013
May-June 2013 issue: March 1, 2013

For more information about *Duke Magazine Classifieds*, please contact dukemag@duke.edu.

Extra Credit

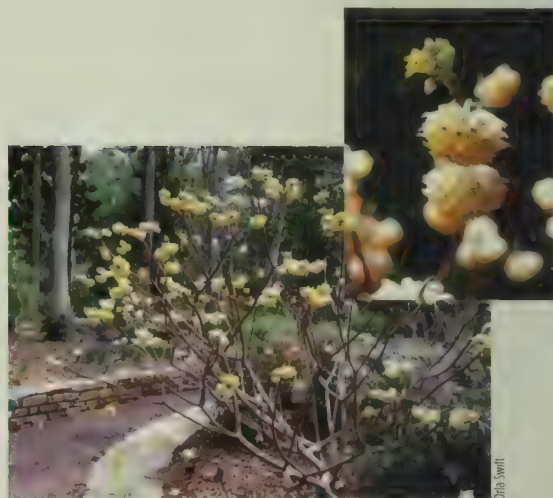
Nowhere on the Duke campus is spring more joyously revealed than in the Sarah P. Duke Gardens. The space comprises four distinct gardens that offer delights throughout the year. We asked the curators of each garden to pick a favorite plant species blooming within.

► Cobra lily

(*Arisaema sikokianum*)

W.L. Culberson Asiatic Arboretum
(Paul Jones, curator)

This flower derives its scientific name from the small Japanese island of Shikoku, where it was first described. It's perhaps better known locally as Jack-in-the-pulpit for its distinctive blooms in which "Jack," a snow-white spadix, stands upright in a deep-purple spathe. This woodland flower blooms in mid-April.

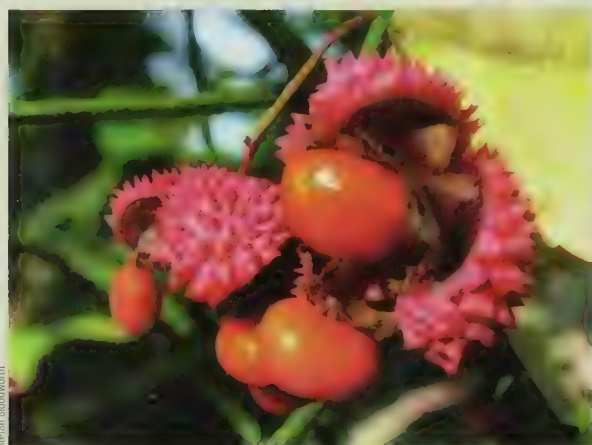


▲ Oriental paper bush

(*Edgeworthia chrysantha*)

Historic Gardens (Mike Owens, curator)

Found near the entrance to the Memorial Garden, this bush blooms near winter's end, a sweetly scented prelude to the gardens' full spring awakening. In full bloom, silky, tube-like flowers cluster along its branches. The plant is native to China's Szechuan province; its fibers are often used to make fine-quality paper.



◆ Hearts-a-bustin'

(*Euonymus americanus*)

H.L. Blomquist Garden of Native Plants (Stefan Bloodworth, curator)

This woodland shrub might be overlooked in other times of the year, but in late fall, it puts on a show that can't be missed. During fruiting, the slender four- to six-foot shoots carry crimson-red capsules that split open to reveal their fleshy orange seeds. Native to the southeastern U.S., this shrub is related to vines of the bitter-sweet family.



◀ Weeping rostrinucula

(*Rostrinucula dependens*)

Doris Duke Center Gardens

(Jason Holmes, curator)

This shrub takes center stage in late summer, when it produces a cascade of pink flowers that maintain their color throughout fall and into winter. Native to south central China, it can be found in the Doris Duke Center Gardens' East Meets West Garden. And if you time your visit just right, you might run into a group of butterflies or hummingbirds, who consider the shrub a favorite stopover on their migrations.

ENGAGE

CONNECT

CELEBRATE

Duke Reunions**2012****REGISTRATION
OPENS IN
MID-MARCH****April 20-22, 2012****Reconnect with classmates
and experience the best of Duke****Spotlight Speaker, Friday, April 20**

Beyond Boundaries – Miguel Nicolelis, M.D. Ph.D., is the Duke School of Medicine Professor in Neurosciences at Duke University, Professor of Neurobiology, Biomedical Engineering and Psychology and founder of Duke's Center for Neuroengineering.

LEAF Award with John Sayles, Saturday, April 21

One of America's most respected independent filmmakers and storytellers, John Sayles, will be the 2012 recipient of The Duke LEAF Award for Lifetime Environmental Achievement in the Fine Arts.

Your reunion begins online at:

www.DukeReunions.com**Duke**
ALUMNI ASSOCIATION**CLASSES**

**1952, 1957, 1962, 1967, 1972, 1977,
1982, 1987, 1992, 1997, 2002, 2007**
and the **Half Century Club**

Start making your plans **ONLINE** now.You'll want to see what everyone has been
doing lately, and share your own news.www.DukeReunions.com**Duke Alumni Association**Reunions Office • Box 90572 • Durham, NC 27708-0572
www.DukeReunions.com

DUKE

DUKE UNIVERSITY, BOX 90572
DURHAM, NORTH CAROLINA 27708-0572

NONPROFIT ORG
U.S. Postage
PAID
PPCO

C-00
PERIODICALS
PERKINS LIBRARY
BOX 90180

977

Travel *with* Duke

Your friends

Your faculty

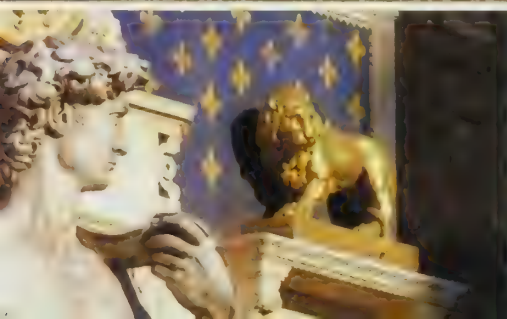
*Your dream
destinations*

Where do you want to go next?

www.dukealumnitravel.com

Duke

ALUMNI ASSOCIATION





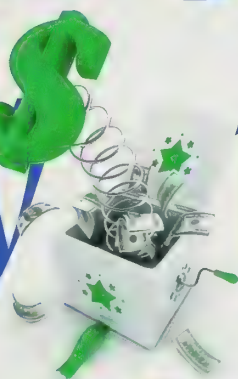
MAY-JUNE 2012

MAGAZINE

Read ^{this} magazine



and ^{\$}Win fabulous



prizes! Look ^{inside}



Now!



Rethinking
our culture
of incentives



Judge and Muff Carr Passionate about Duke

DUKE UNIVERSITY
GIFT PLANNING

"We're passionate about Duke and try to lead by example," said Judge Carr.

Judge received a civil engineering degree from Duke in 1971 and has 19 other relatives who also attended the university. His wife, Muff, a Raleigh pediatrician, earned a Masters of Theological Studies from Duke Divinity School.

A 23-year fundraising veteran, Judge is well-known as senior associate dean for development and alumni affairs at the Pratt School of Engineering. He began his career as a construction project manager, supervising Duke projects like the installation of the Flentrop Organ and Gallery in the rear of the Duke Chapel. His father was the architect for the project.

But it's as a fundraiser that he found his calling.

His efforts at Pratt have helped build support for professorships, scholarships, fellowships, and programs that provide experiential learning opportunities for engineering students. He's a devoted champion for the Engineering Annual Fund and has helped grow support from about \$500,000 to more than \$2.9 million annually, with 40 percent participation from engineering alumni. In 2006, Judge received Pratt's Distinguished Service Award.

Judge and Muff are committed Duke supporters. They have graciously contributed to several capital projects at Duke, including the Fitzpatrick Center, and are members of the James B. Duke Society, the Heritage Society, the Braxton Craven Fellows, and the Iron Dukes. They've established a scholarship endowment at Pratt and an unrestricted endowment at the Divinity School. They have also included Duke in their estate plans, with a bequest planned for Duke Athletics, the Nicholas School, Divinity, and Pratt.

"We're investing in Duke's students and in Duke's future," said Judge.

To extend your support of Duke through a bequest, a life income gift, or some other gift plan, please contact:

Duke University Office of Gift Planning
Box 90600
Durham, North Carolina 27708
Phone (919) 681-0464
Fax (919) 684-9731
Email gift.planning@dev.duke.edu

FEATURES



22

COVER

What's in It for Me?

By Robert J. Bliwise

A culture of incentives pervades our jobs, our legal system, and even our parenting. But one Duke professor warns that too many carrots may be undermining our sense of what's right.

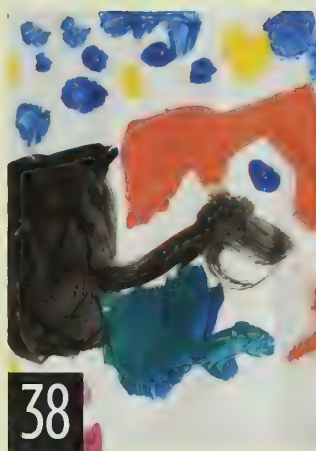


28

Ready to Launch

By Bridget Booher

As they prepare to head out to jobs and graduate school, five members of the Class of 2012 reflect on where they've been and what lies ahead.



38

The Narrative of Dark Places

By Taylor Sisk

When bad things happen to children, many struggle to cope. A new treatment program is helping kids tell their own stories—and heal.



44

Making the Cut

By Bridget Booher

In the late 1980s, Alisa Lepselter '85 couldn't imagine she would one day work alongside Woody Allen. Fourteen films later, she can't imagine doing anything else.

DEPARTMENTS

4 Forum

7 THE Quad

New research rules, a rise in hazing reports, and platinum plans for Environment Hall

17 Ideas

Energy from everyday motions

20 Observer

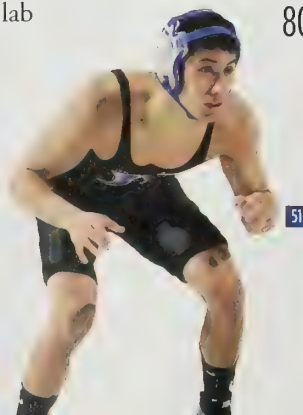
Sleeping and waking in Duke's sleep lab

50 Sports

Fencer Becca Ward on skipping the Olympics

53 Muse

Chris Sims '95 captures the theater of war



57 ForeverDuke

DAA activities and connections

61 ClassNotes

77 Classifieds

78 Retro

Duke gets the princess treatment

80 Devil's Own

Listening in on the Robinsons



78





FULLFRAME

Victory lap: Duke fans congratulate Curtis Beach '13 after he won the 800 meters on the final day of the 2012 Duke Invitational at Wallace Wade Stadium. Beach, who is coming off a record-setting indoor season (see page 50), set a personal-best time in the race. *Photo by Jon Gardiner.*



EDITOR:

Robert J. Bliwise A.M. '88

MANAGING EDITOR:

Michael Penn

ASSOCIATE EDITOR:

Bridget Booher '82, A.M. '92

CLAY FELKER MAGAZINE FELLOW:

Elissa Lerner '08

PUBLISHER:

Sterly L. Wilder '83, Associate Vice President,
Alumni Affairs

STUDENT INTERNS:

Dan Altman '15

Tim Lerow '15

Kristin Oakley '12

Aziza Sullivan '12

DESIGN CONSULTANT:

Lacey Chylack, phase5creative inc.

PRINTER:

Progress Printing

OFFICERS, DUKE ALUMNI ASSOCIATION:

Hardy Vieux '93, president

Sterly L. Wilder '83, secretary-treasurer

EDITORIAL ADVISORY BOARD:

Peter Applebome '71, chair

Sarah Hardesty Bray '72; James Burnett '98

William Cohan '81; Jennifer Farmer '96

Jerrold K. Footlick; Robbyn Footlick '85

Edward M. Gomez '79; Devin Gordon '98

Kerry E. Hannon '82; John Harwood '78

Dave Karger '95; Sara Lipka '01; Julia Livshin '96

Valerie A. May '77; Susannah Meadows '95

N. Page Murray III '85; Will Pearson '01

Lauren Porcaro '96; Shaun Raviv '01

Jim Rosenfield '81; Jon Scher '84

Lesley Jane Seymour '78; Elizabeth Spiers '99

Greg Veis '03; James O. Wilson '74

Robert J. Bliwise A.M. '88, secretary

Clay Felker '51, founding chair

DUKE MAGAZINE

Box 90572, Durham, N.C. 27708

PHONE: (919) 684-5114; FAX: (919) 681-1659

E-MAIL: dukemag@duke.edu

ADDRESS CHANGES:

Alumni Records, Box 90581, Durham, N.C. 27708

or e-mail bluedevil@duke.edu

© 2012 Duke University

Published bimonthly by the Duke Alumni Association



Forum

UNDER THE GARGOYLES

Spring at Duke, and where are the hanging-out places on campus? Some of those places blend in seamlessly to the larger campus context, but still carry a hint (if not the shock) of the new.

Bostock Library is awash with students and the various electronic extensions that keep them anchored; students connect with their work, with each other, and with their entertainment options on their iPads, their iPods, and their laptops. And they actually sit and read books. As the library's website puts it, they are drawn to "comfortable spaces in which to read, write, reflect, create, and collaborate."

A short walk away, on the Plaza, there's more conversation than reflection, though you can spot a student deep into his biochemistry textbook. Just a few years ago, the Plaza was a skinny slab of concrete known, with no appreciable degree of affection, as the Bryan Center Walkway. Today, students are "tabling" for political causes. They're advertising a charitable pursuit—"Help Me Cycle Across America"—and a spring dance performance by a group called Choreolab. And they're lining up for offerings from Pauly Dogs, a food cart that reconstitutes the traditional hot dog into something exotic—Niko's Nitro Dog or Pizza in the Bun.

Over many years, one charmless campus fixture was known by a curiously aquatic designation. That was The Ocean, the sprawling parking area just off Campus Drive on West Campus. But parking space has become living space, including areas for dining, socializing, and sitting around, well, an ocean-size TV screen. Keohane Quad just recently became a complete quad, with the opening of a new residence hall—instantly a favorite for students.

Duke is a restless, always-evolving place. And so is *Duke Magazine*. Over the past few months, the magazine has worked to rethink and reinvent some of its traditional spaces—for example, the compilation of campus

news, now called The Quad, and the section for alumni news, freshly conceived as Forever Duke. The idea is to make the magazine more inviting, more accessible, and more surprising. You'll see the results in this issue. We hope you'll find that the magazine is a place that—like the campus it showcases—delivers a mix of the familiar and the unexpected.

—Robert J. Bliwise, editor



Chilling out: Bryan Center Plaza features a system that sprays cool mists on hot days.

Getting Housed

I read with great interest Elissa Lerner's article, "Model House" [January-February 2012], detailing how Duke is returning to a housing policy that will foster cohesive living arrangements on West and Central. I had the great benefit of living in such a cohesive house—Stonehenge—and there were several others, including male houses such as House P and BOG, and female houses such as House G and Broughton. The bonds between members of our dorm, stretching well beyond class year, were and are so strong that last spring [we] had the first Stonehenge/ Broughton reunion, which brought together more than 100 residents of these dorms from the 1978-86 class years. [Dean of undergraduate education] Steve Nowicki, who was integral in the development of the new housing policy, spoke to our group and experienced firsthand the lasting power of cohesive living groups.

I did want to point out that prior to the 1994 decision to house all freshmen together on East, Duke moved to all-freshman dorms in 1982. While this change fostered stronger class ties, I and others predicted it would be the end of unique, diverse, cohesive living groups. Without the influx of freshmen each year—students who had not yet selected their friends and segmented into cliques—these living groups were no longer forced each year to throw together nerds, partiers, jocks, and flirts, with the outcome usually being a group of good friends who otherwise would not likely have ever associated together.

Alas, the diversity and uniqueness died quickly after the loss of freshmen. The subsequent decisions to give lottery preference to sophomores was the final nail in the coffin of cohesive independent houses, leaving West Campus filled with fraternities on the one hand, and on the other, small groups of friends living together in pods, regardless of house. As a result, Duke students lost a most valuable part of the overall Duke experience. Had I not been thrown unwittingly into my house as a freshman and empowered to stay all four years, I would have missed out on the rich and varied friendships with dozens of 'Hengers whom I otherwise never would have met.

I commend Nowicki and Duke for promulgating this new housing



policy. While I still lament the lost house diversity and lost interaction between freshmen and seniors that has resulted from the all-freshman dorms, this new policy will be a significant step in improving the overall living experience at Duke.

*George White '84
Wyoming, Ohio*

Elissa Lerner refers to the "ferociously criticized" 1994 decision to make East Campus an all-freshman campus. However, she doesn't mention that the criticism from upperclassmen was because of what we feared the plan would do to upperclass residential life.

At the time, East Campus provided an alternative for upperclassmen who didn't want to live on the cramped, fraternity-dominated West Campus or the solitary, apartment-based Central Campus. The plan did not account for the living groups and independents who built vibrant communities in the roomy buildings, grassy quad, and quieter atmosphere of East Campus. Most important, the plan did not fundamentally rethink the role of fraternities in shaping campus life.

[Then-president] Nan Keohane's administration delayed the move for a year to better accommodate those concerns, but still didn't fully address the need for a wider variety of upperclass housing. It sounds like the new house system finally accomplishes that, and I hope it works out well for the students who will live in it.

*Kira Marchenese '95
Washington*

There is an old saying that what goes around comes around. I could not help but think of that saying when I read the article on [the] new housing model.

When I entered Duke in 1961, all of the freshmen on West Campus were housed in one quadrangle. At least for men, all freshmen were grouped together. There was fraternity rush in the

middle of January. Then, upperclassmen were either in fraternity dorms or independent housing, which was allocated by seniority. I remember camping out in front of student housing to get an early selection of what was left for sophomores.

To provide a more cohesive living experience for independents, separate houses were created sometime in the early '60s. I was in Taylor Hall. We had an allocated portion of the dorm with a commons room and a separate table in the dining hall with our house plaque over the table. The idea was to provide a more intimate and comfortable setting for independents. That sounds like it's still the purpose of the changes to housing discussed in the magazine. I wonder if the problem—if there is one—will ever be solved.

The big questions [when I was a student] were whether to allow liquor and women into the West Campus dorms. Both were prohibited when I started. Our rooms were Spartan with wood floors and simple furniture, but we were spoiled with maid and laundry service.

*Marlin M. Volz Jr. '65
Davenport, Iowa*

I enjoyed reading the January-February 2012 issue, even though the article on residence halls made me think I am in a time warp. Things were certainly different for the Class of 1960.

Page 32 states, "A housing report from as early as 1958 notes that '600 independent upperclassmen lived in unorganized anonymity' and laments 'the disorder, the barbaric conditions of life.'" The statement left me bemused. I looked up "barbaric" to be sure of the definition and do not think it applies to the independent dorms I lived in for the last three years of my time at Duke. I never saw or heard of this report, either.

I did appreciate that article in general, as well as the one about Coach K.

*Henry C. Irvin '60
San Antonio*

Rethinking Admissions

Unbelievable. Almost 32,000 applicants in 2012 ["Admission: Impossible?" March-April 2012]! Most of them would cringe to hear how I was admitted in 1951. I was planning to join the Navy after high school in Ridgewood, New Jersey, where I graduated a below-average student and no jock. I even

skipped the SATs. I applied to Duke, which offered maid service, a key factor. At the time, a huge portion of the student body was from North Carolina, and I'm guessing Duke took me in on some early kind of "diversity" program.

As for Durham ["Bull Rising," March-April 2012], [it] was only a few things. One, the used bookstore downtown. Two, free cigarettes at the factories. Three, the Durham Armory, where on most Friday nights there would be R&B concerts and dances for blacks. Whites could watch from the balcony. Four, an R&B DJ on the radio almost every night. Five, the drive-in outside East Campus, where [you could find] Shorty, the carhop, unless he was doing time. I guess anything is possible.

*Bob Anderson '55
The Villages, Florida*

Radio Days

I read with great interest your article regarding WDBS, the first campus radio

station [Retrospective, March-April 2012]. I was the first station manager of WDBS when the station went on the air in 1950. The three men named in the article actually convinced the administration to approve the station, but after funding was found, as manager, I had to schedule programming, write scripts, train people, and find talent. We all worked very hard; I spent many nights and days at the station, and even sold time to local merchants and national sponsors. We even carried *The Perry Como Show*, sponsored by Chesterfield. I'm the one in the center of the picture with script in hand. I'm delighted that the station progressed so nicely over the later years.

*Robert Cook '51
Rancho Mirage, California*

A Kick for Soccer

While everyone is very proud of the Duke men's basketball program, I think Duke would be well served to highlight better achievements of members of the university.

UPDATE

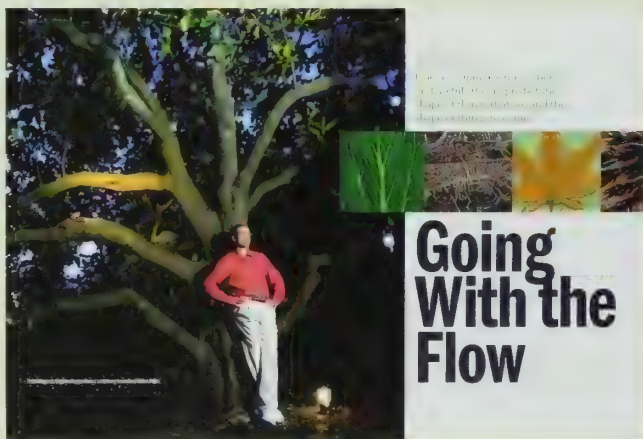
When we profiled Adrian Bejan in 2007 ["Going with the Flow," September-October 2007], the Pratt School's J.A. Jones Professor of mechanical engineering hoped he could garner more respect for his burgeoning field of constructal law. "Engineering is...a mental view- ing," he said. "It is ideas, it is rare and noble, just like frontier physics or biology."

The basic premise of constructal law is that structures—natural and manmade, concrete and intangible—evolve to become more efficient facilitators of movement. His latest book, *Design in Nature: How the Constructal Law Governs*

Evolution in Biology, Physics, Technology, and Social Organization, demonstrates the breadth of his "law of design," making sense of everything from traffic flow to animal locomotion to military hierarchy.

The broad reach of Bejan's ideas has kept him among the most-cited engineering scientists in the world. An article in *The Wall*

Street Journal used constructal law to help explain unprecedented scoring in recent NFL seasons. Bejan, who has amassed sixteen honorary degrees from eleven universities, received honorary membership in the American Society of Mechanical Engineers last year. In addition to his ongoing research, Bejan teaches a course on constructal law at Duke each spring.



WATCH 
Bejan
interviewed
about his
new book



The photo of the Duke women's soccer loss in the NCAA finals [Full Frame, January-February 2012] was a great photo capturing the emotion of the national championship game. However, expanded coverage with an article expressing the tremendous accomplishment of these dedicated athletes would have been appropriate for such an achievement as being runner-up for the national championship.

*Rob Epstein M.D. '90
Belle Mead, New Jersey*

Climate Change

I laughed out loud when I read "Feeling the Heat" [Gazette, January-February 2012]. Apparently, nature is not cooperating with scientists at the Nicholas School of the Environment, and they are flummoxed. The trees and the birds just aren't adapting as predicted by many models.

They must not be teaching critical-thinking skills at the Nicholas School. The birds and the trees know that there is no need to adapt to a nonexistent problem, otherwise known as "global climate change." The hoax that is catastrophic anthropogenic global warming is rapidly falling apart, and for the sake of Duke, I hope that the last to find out are not the scientists at the Nicholas School of the Environment.

*Patrick Plemmons M.H.A. '76
Alpharetta, Georgia*

Fine Company

One of my most enjoyable magazines is *Duke Magazine*. The current issue about Durham's rise as a cultural and gastronomic mecca [March-April 2012] has been quite interesting. For the record, I also get both the *Harvard Magazine* and *The Kennedy School* [at Harvard] *Magazine*—and I don't think either one out-classes *Duke Magazine*. Thanks for the great job.

*David D. Jordan '61
Charlotte*

Send letters to: Box 90572, Durham, N.C. 27708 or e-mail dukemag@duke.edu. Please limit letters to 300 words and include your full name, address, and class year or Duke affiliation. We reserve the right to edit for length and clarity. Owing to space constraints, we are unable to print all letters received. Published letters represent the range of responses received. For additional letters: www.dukemagazine.duke.edu.

THE Quad

NOTEWORTHY FROM AROUND CAMPUS

Duke students participate in Holi, the festival of colors that Hindus celebrate to mark the beginning of spring.



BY THE NUMBERS

Facts from Duke's Thompson Writing Program, which offers writing courses and tutoring for students and faculty

1,201

Students participating in the Writing Studio, a free tutoring program, in 2011-12

22

Percent of tutoring appointments conducted online

15

Disciplines represented by the faculty of Writing 101, required of all freshmen

223

Students who signed up for the Duke Reader Project, which pairs students with faculty and alumni experts in the subject of their writing

38

Percent of a student's writing time spent on "life writing"—e-mails, blogs, journals, and poetry—according to a 2008 Stanford University study

8

Faculty members who participated in a Thompson Writing Program writing group to work on scholarly articles

1

Faculty member (biology professor Dan McShea) who participated in the group to work on a children's book

"If centrists like Sen. [Olympia] Snowe continue to leave the public sphere—or are voted out of office in primaries—we will be left with totally polarized legislatures, perpetually gridlocked and incapable of addressing the nation's pressing challenges like the deficit, energy dependence, and economic competitiveness."

—David Schanzer, associate professor of the practice of public policy (*The Times-Picayune*)

"Think about recent innovations in the way we book flights or buy music. These products save us time and money and make us more productive. However, while the firms that pioneered these innovations might have grown fast, they likely eliminated large numbers of jobs in travel agencies and record stores along the way."

—Aaron Chatterji, associate professor of business, on the pros and cons of small businesses as job creators (*Wall Street Journal*)

"I don't want to get in trouble with anybody."

—President Barack Obama, explaining that his tie included both Carolina and Duke blue, during a speech in Mount Holly, N.C., in March (*The Washington Post*)

"That immigrant culture that has renewed us has been at the core of our strength. I don't know when immigrants became the enemy."

—Former Secretary of State Condoleezza Rice, during the Ambassador Dave and Kay Phillips Family International Lecture at Page Auditorium





Happy plants: A cabbage plant grows at the Duke Campus Farm, an educational farming facility to promote understanding about food sources and sustainability.

Megan Morr

“It all starts with the soil.”

—**Will Allen**, former professional basketball player and founder of Milwaukee-based community farm Growing Power, explaining the key to growing more nutritious food, during an event on America’s food future sponsored by Duke and UNC-CH

“I would be very surprised if it did anything more than anger the people who are already hostile to Goldman.”

—**Lawrence Baxter**, professor of law, on Greg Smith’s *New York Times* op-ed piece explaining his resignation from Goldman Sachs (*USA Today*)

“They played soccer and enjoyed concerts.... The way they created this life within total gloom and darkness is a real testament to the human spirit.”

—**Karen Weiner** ’92, on publishing her father’s diary of life as a boy in the Nazi concentration camp Terezin (Duke Divinity’s *Faith and Leadership*)

“Students need to learn things and to be innovative and entrepreneurial in this new global world.... Art is about communicating effectively, about communicating visually, about understanding.”

—**Kimerly Rorschach**, director of the Nasher Museum, on why university art museums are important (*The New York Times*)



Building a Data Lockbox

Potti case leads to new research rules.

In evaluating the university's actions surrounding now-discredited research data published by former faculty member Anil Potti, Duke research officers admit the university made mistakes in handling the case—and they are taking steps to make sure it doesn't happen again.

Sally Kornbluth, vice dean for basic sciences in the School of Medicine, announced several new steps to improve data transparency and security at a February meeting of the Academic Council. Among the changes will be revised information-technology processes to document whenever data collected in original research are altered.

A key allegation in the ongoing investigation into Potti's research is that data collected in several of his studies on cancer were altered for publication. Kornbluth

said Duke's investigation of Potti's data was flawed because it examined only the statistical methodology applied to the data, not their origin.

The new measures create a "data lockbox," Kornbluth said. "We want to see when changes are made and who makes the changes. Had that been in place in this case, the discrepancy in [Potti's] data would have been revealed earlier."

Kornbluth said there was "a dire need" in many research labs for quantitative expertise to review data. As a result, Duke has taken steps to embed biostatisticians in clinical research groups. Already this change has attracted attention from other research institutions looking to reduce errors in data analysis.

It's impossible to develop a system that

"We want to see when changes are made and who makes the changes."

will completely eliminate academic fraud if a researcher is intent on misconduct, said Kornbluth, "But this case highlighted that we can take a hard look at the infrastructure and the culture around research to reduce it."

"We want people to feel free to raise concerns when they see research problems," she said. "This is through a combination of creating places to raise concerns anonymously and to have leadership throughout the institution where people feel comfortable to raise their hands and speak out."

FOOTNOTE ➡

Duke will build a **six-acre pond** near the School of Law to reclaim and collect water that will be used to cool campus buildings. The project is expected to save about 100 million gallons of drinking water a year.



Force of Nature

Peeking inside a particle to understand something bigger

Haiyan Gao, chair of Duke's physics department, probes inside atoms to study the structure and spin of neutrons. A native of Shanghai, Gao was inspired to pursue physics by her father's stories about female Chinese physicist Chien-Shiung Wu, who came to the U.S. in the 1930s and helped scientists unravel the chain of reactions needed to create the atomic bomb. Now Gao is designing experiments that test for the existence of a new, fifth, fundamental force of nature.

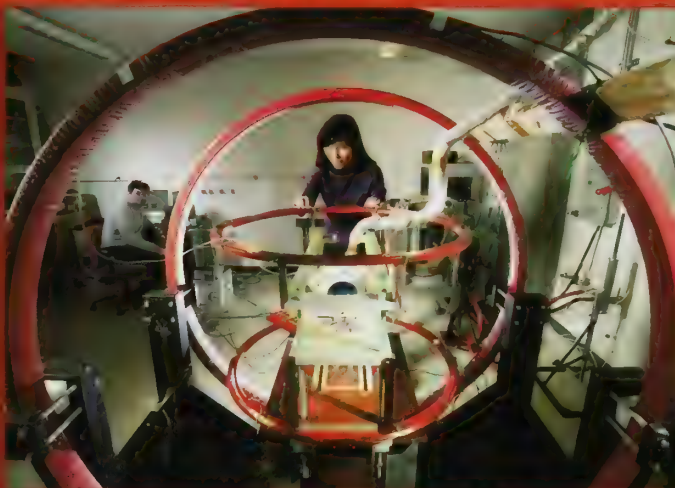


What forces do we already know about?

There are four fundamental forces we already know about. Some of them we are more familiar with than others—for example, gravitational force and electromagnetic force. The third one is strong force, which is the force responsible for binding neutrons and protons into the nucleus of an atom. The fourth force is the so-called nuclear weak force, which is responsible for the fact that a neutron decays into a proton, electron, and anti-electron neutrino. The name can be misleading, because you would think weak force is weak, but the weakest force we know is actually gravity. And because gravity is so out of range with all the other three forces, we have not been successful in unifying all four forces. So far, the theory we have is the standard model of particle physics, which will allow you to unify electromagnetic, strong interaction, and the weak interaction.

If you can't unify all the other forces, is that why you need another force?

To some extent. The reason we need, or we think we need, new forces is because we do not really understand everything in nature. This Standard Model of particle physics is successful in describing a lot, but it cannot describe, for ex-



Spin zone: Haiyan Gao uses tabletop equipment to control the spin of subatomic particles.

ample, why 74 percent of energy in the universe is actually dark energy and why visible matter is only 4 percent, or why the universe is predominantly matter, rather than matter and anti-matter. What physicists are trying to do is extend standard models by introducing new physics.

In terms of looking for this new force, you can't necessarily use just a neutron, because it decays pretty quickly, right?

Fortunately and unfortunately, a neutron decays in around fifteen minutes. That makes my job very difficult. For the same reason that a neutron decays, however, you can actually use that to look for this new kind of physics. To do my work, I want to use something very similar to neutrons—but

stable—because I want to play with the polarization, or alignment, of the neutron spin. And then you know, you can ask your graduate students to work twenty-four hours a day, seven days a week. I'm joking, but the point is you have a lot of time to work on your experiment and don't have to worry about finishing everything in fifteen minutes.

I thought everything in particle physics now was about giant, expensive particle-smashers.

The way to look at new physics is to go to extremely high-energy regions, big colliders where you're at the high-energy frontier. But one can also go to the lower-energy regions and perform high-precision measurements, using weak interaction. You

want to do experiments from different ways to get a complete picture. It's like looking at an elephant. You have to look at one from different angles; otherwise you just get a long nose or long leg.

What are the essential points about the atom that we should be teaching in high-school physics?

You can learn so much about the basics of modern physics that are important for chemistry, for biology, and materials science. I cannot emphasize enough the importance of studying atoms. And it's very important to give students the impression that even though the atom is part of our everyday lives, we still don't know everything about it. We don't know why a neutron is neutral, why a proton has a charge of 1, why the masses of the particles are so close but not quite equal, why the proton is stable but the neutron decays. We need more youngsters to be interested and inspired and motivated to carry on the adventure of understanding more about the subatomic world.

Adapted from a video interview conducted by Ashley Yeager, science writer for the Office of News and Communications. To see the full Office Hours program, go to dukemagazine.duke.edu.



ONTHEPLAZA

Sounding the Bells for Haiti

When an earthquake struck Haiti in January 2010, the world sprang into action. Martin Connor sprang into composition. Connor, then a sophomore and a newly declared music major, began working on a requiem for the victims of the earthquake, which claimed more than 300,000 lives and left more than one million people homeless. Working with Anthony Kelley '87, A.M. '90, associate professor of the practice of music, Connor spent two years on the project, which became his senior thesis. The finished work, debuted at Duke Chapel this

spring, features singers, musicians, and the work of carillonneur Sam Hammond '68, M.T.S. '96. Connor wrote lyrics for the funeral mass in both the traditional Latin and Haitian.

Martin Connor '12

Major: Music

Hometown:

Bryn Mawr, Pennsylvania

Raised Catholic, Connor had a natural interest in the requiem as a musical form, but he also drew motivation from his deep, if unexpected, feelings for Haiti. "I'm not Haitian," he says. "I don't know too many Haitian people. But I listen to their music, and kind of keep [the country] on my radar. I feel like Haiti is a country to be proud of."

Connor says he hadn't planned to major in music when he entered Duke, but he has found it to be something he can't live without. "Something about it just feels right," he says. "If anyone was ever meant to do anything, I was meant to compose."

He hopes to publish his requiem and use proceeds from live and recorded performances to support rebuilding efforts in Haiti. "The news cycle moves so fast," he says. "I wanted people to slow down...and remember it doesn't end when the news cameras leave." —Aziza Sullivan



Les Todd

Hazing Concerns

Reports rise—but the reasons aren't clear.

A spike in reports of hazing at Duke—coinciding with a wave of national media attention on hazing on college campuses—has brought renewed focus on an old problem.

Twenty-three reports of hazing have been filed in the current academic year, up from seven in 2010-11. Associate dean of students Stephen Bryan says it's difficult to know whether acts of hazing actually have increased from previous years or whether there's simply greater awareness of the issue. In particular, the November 2011 death of a Florida A&M University band member, allegedly as a result of hazing, put a national spotlight on the dangers of hazing.

None of the incidents reported at Duke this year was filed by an individual claim-

ing to have been hazed; rather, the complaints have come from other students, parents, and residence-life staff. Most of the reports were made confidentially through a hazing hotline or an online reporting system. "Hazing isn't contingent on whether something is forced or voluntary," says Bryan. "In a number of the cases we've followed through on, the people involved didn't think they had been subject to hazing."

Alleged offenses included excessive alcohol consumption and forced physical activity. While the majority of reported incidents involve students involved in Greek life, others have come from selective living groups, athletic teams, and other campus organizations.

Investigation into these reports contin-

ues. So far, eight groups have been found responsible for violating the university's hazing policy and have been sanctioned with a variety of responses, including disciplinary probation, restrictions of activities and/or future recruitment, and redesign of new-member education programs.

In a February newsletter to parents, vice president for student affairs Larry Moneta outlined the steps the university is taking to deal with hazing and asked parents to be part of the solution. "As I've told my own children," he wrote, "if my choice is to prevent you from embarrassment by inaction on my part or to take actions that I believe protect you from harm, I will always do the latter. I ask the same of you."

—Bridget Booher

BOOKBAG

MUSIC 146: MEET THE BEATLES AND THE 1960'S

The catalyst: Although music professor Thomas Brothers was hired as an expert on medieval and Renaissance music, he's longed for the opportunity to teach a course on one of the most celebrated and influential bands of the past century. "I grew up with the Beatles music, and I love it still, and I never get tired of it," he says. "My sense is that a lot of college students love it, too."

The gist: The course intersperses toe-tapping listening sessions with music theory and the cultural history of the decades surrounding the Beatles' evolution. "Serious but totally accessible. That is the trick of the Beatles," says Brothers.

The twist: While some students sign up because they're Beatles fans, the class isn't about fawning over pop icons. "I try to talk about a little bit of music theory without getting too technical," says Brothers. "I want to give students both a musical and cultural perspective on the Beatles' music. There are a lot of interesting things going on—spirituality, revolution, counterculture."

Assignment list: Readings include Timothy Leary's 1964 book *The Psychedelic Experience* and "Inside the Hippie Revolution," William Hedgepeth's 1967 article for *Look* magazine. Projects include imagining a Summer of Love reset in 2012 and envisioning the "ultimate Beatles album."

What you missed: Brothers begins one class by writing five song titles next to a clef on the chalkboard. Students are guided from the melodic bass lines in the Beach Boys' "Sloop John B" to the mounting urgency in John Lennon's distorted voice in the Beatles' "Strawberry Fields Forever." As Lennon's third verse hits, Brothers exclaims with whispered enthusiasm, "Those cellos are savage!"

—Dan Altman



Genuine Mad Man

A Madison Avenue pioneer's link to Duke

If Don Draper is the fantasized version of a suave 1960s pitchman, David Ogilvy was the real deal. Flamboyant and movie-star handsome, the late founder of Ogilvy & Mather helped build the *Mad Men* milieu, lording over advertising's Cold War-era boom and producing some of the industry's iconic campaigns.

A trove of Ogilvy's history resides in Duke's Hartman Center for Sales, Advertising & Marketing History, part of a collection of personal papers donated by former Ogilvy & Mather CEO Kenneth Roman. Roman, who recently published a biography of Ogilvy titled *The King of Madison Avenue*, visited Duke in March to help celebrate the Hartman Center's twentieth anniversary—and share some tales of an original Mad Man.

"I knew I had a great subject, but I discovered I had a great story," Roman said during the lecture. He recalled Ogilvy's gift for divining advertising maxims, many of which he stowed in Russian nesting dolls for employees to discover. "He changed the business. He made it more professional," Roman said.

Credit Ogilvy, too, for introducing gin-and-tonic to American consumers through a memorable ad campaign for Schweppes. And that's a legacy that Draper would appreciate. —Kristin Oakley



Cooler thing next to a pool: Gin-and-Tonic with Schweppes

This is the first of a series of advertisements for Schweppes, a Swiss company that has been producing carbonated beverages since 1810. The ad is for a Schweppes Gin and Tonic, which is described as being "the most refreshing and healthful of all beverages." The ad also features a small illustration of a Schweppes bottle.



Courtesy Hartman Center for Sales, Advertising & Marketing History

Afternoon gin-and-tonics: A Schweppes magazine ad from 1954

Journalism 2.0

Reporters get a toolkit to deal with data overload.

It's hardly news that technology is transforming the way that consumers engage with journalism. But how effectively have journalists embraced technology? Asking that question led Sarah Cohen, Knight Professor of the practice at the Sanford School's DeWitt Wallace Center for Media and Democracy and a Pulitzer-Prize-winning journalist herself, to conceive what she calls the Reporters' Lab—a sort of think tank, research center, toolkit, and Web-based hosting service.

According to the lab's website, government offices from the local police department to the federal Department of Energy routinely generate artifacts that could become "vital elements" in investigative journalism. "Even when reporters can pry those records from agency warehouses and hard drives, the stories are still hidden in hours of videos, stacks of forms, and giga-

bytes of data housed in unfriendly formats."

The issue in journalism transcends access: The full-time reporters who ply their trade in city halls and statehouses are disappearing. A 2011 study by the Federal Communications Commission documents the decline of local watchdog reporting. The study described a resulting "shift in the balance of power—away from citizens, toward powerful institutions."

The Reporters' Lab aims to help journalists make sense of "messy, confusing, and inconveniently formed records." As the website notes, ubiquitous computer power already reduces billions of tweets into a routine data set. So it makes sense to redeploy that computer power and provide "easy-to-use, targeted, and customized software that helps solve reporting problems and open up new journalistic frontiers."

Eclectic Choreography

American Dance Festival takes another turn.

Summer in Durham—time again for the hordes of lithe, leotard-wearing dancers who descend on the Bull City for the American Dance Festival. Now in its seventy-ninth year, the festival this year features sixteen companies and choreographers, seven commissioned works, six world premieres, and seven company debuts. Returning groups include Keigwin + Company, Hubbard Street Dance Chicago, Pilobolus, Paul Taylor Dance Company, and Mark Morris Dance Group. Debuting this year are the Stephen Petronio Company, Vertigo Dance Company (Israel), Ragamala Dance, and Kyle Abraham/Abraham.In.Motion.

A collaboration between ADF and the North Carolina Museum of Art features choreographer Shen Wei's new work, *Undivided Divided*. The forty-five-minute piece is designed for viewers to wander through moving "displays" of painted dancers and interactive installations at the museum.

Performances remain the heart of the festival, but the concurrent ADF school sessions attract a colorful cohort of students, who take courses in contemporary technique, improvisation, repertory, ballet, and hip-hop. Alumni include Madonna, who was a student in 1978.



Kinetic energy: Keigwin + Company bridge the gap between artistry and entertainment.

On the Map

Lab takes cartography beyond its usual borders.

Saturday afternoon, and the lecture room is full of undergraduates, grad students, and faculty members. A large chart makes its way around the room, and the crowd of thirty dutifully marks on it. It's not a sign-in sheet, but a map—and by the time it has made it around, it's decorated in small doodles, words, and one ring from a coffee mug.

"Everybody can add to the map...and it will no longer be just a map," says Katharine Harmon '82, founder of Tributary Books

"It will no longer be just a map. It will also be art."

and author of two books that explore real and imaginary territories. "It will also be art." Noting looks of dubious uncertainty, she adds, "That's what artists do—they use maps as a means of personal expression."

It's a theme that recurs throughout "Cartography & Creativity in the Age of Global Empires," a day-long lecture series sponsored by BorderWork(s), one of the new humanities labs organized by the Franklin Humanities Institute. A younger sibling to the 2012 pilot, the Haiti Lab, BorderWork(s) takes its name from its central focus on national and international boundaries and their effects on worldwide social and political behavior. The lab's work will culminate in a 2013 exhibition titled "Lines of Control" at the Nasher Museum. The humanities labs are funded through a Mellon Foundation grant called Humanities Writ Large.

The lecture series, which took place in March, featured twelve speakers who explored maps as art, as ways of understanding the world, and as tools for shaping identity, enforcing power, and defining sociopolitical borders. "Maps are not just about science. They are very much about the humanities as well," says Sumathi Ramaswamy, a professor of history and core faculty member of the BorderWork(s) lab. "The metaphor of mapping has to do with the fact that humanists are interested in people, and in places, and what happens to people as they move through different places." —Aziza Sullivan

Matthew Murphy

Blue, Green, and Platinum

New Nicholas building targets sustainability.

With a name like Duke Environment Hall, you'd expect the future home of the Nicholas School of the Environment to be eco-friendly. And, indeed, the 70,000-square-foot building is striving to be the greenest on campus.

Plans for the five-story structure, which will be adjacent to the Levine Science Research Center, call for a green roof, solar-heated water, recycled water for toilets and irrigation, and natural light-



Payette, Boston, MA

ing. When completed in the summer of 2013, the building is expected to exceed standards for LEED platinum certification.

The new space will help accommodate the school's growing student population; enrollment in its master's of environmental management and master's of forestry programs has increased by 50 percent since 2007. Faculty offices and classrooms currently are spread among several West Campus buildings.

PLANETDUKE India

At a Glance

Current students who were born in India:

362

Indian nationals working at Duke:

109

Alumni living in India:

446

Number of undergraduate students who traveled to India with university programs in 2011:

33

Key Duke connections:

- Undergraduate education programs in Udaipur
- DukeEngage programs in Jodhpur and Kolkata
- Duke Intense Global, a yearlong academic and civic-engagement program in Hyderabad, designed and led by Leela Prasad, professor of religion and faculty director of the Duke Center for Civic Engagement
- Duke Talent Identification Program hosts a three-week residential summer program for academically gifted Indian children in Mysore
- Global executive and cross-continent M.B.A. programs include a one-week residential academic program in New Delhi
- Medanta Duke Research Institute, created in 2011 by Duke Medicine and Medanta, a leading hospital based in Gurgaon, India, to advance the global study of disease, drug development, and new medical technologies

Fighting Disease With Data

In more than a decade of field-work in rural India, **Manoj Mohanan** has seen many hopeful efforts to improve the health of the country's most vulnerable populations. But he also has learned that human behavior often defies the best of intentions.

In the Indian state of Bihar, for example, rates of preventable or treatable diseases such as childhood diarrhea and tuberculosis have remained

among the worst in the world despite years of government intervention. "For six or seven decades, the government has tried to send in doctors and nurses," says Mohanan, an assistant professor at the Sanford School of Public Policy and a researcher for the Duke Global Health Institute. "It has not worked."

Mohanan is using the tools of social science to learn why those interventions haven't

been more successful. In other parts of India, he has surveyed pregnant women to understand why many pay informally trained midwives rather than receive free obstetric care at a hospital. His data have helped reshape policies and approaches to rural health care in the country. Recently, he helped design and implement a new health-insurance program for the state of Karnataka.

In Bihar, one of India's poorest regions, Mohanan is working with the Bill and Melinda Gates Foundation to evaluate the effectiveness of telemedicine, which aims to use communication technology to improve health care in rural areas. The foundation has set up kiosks throughout Bihar and other regions where local health-care providers can transmit test results and consult with doctors in urban hospitals. The technology, though promising, remains untested, says Mohanan.

"We're trying to look at it empirically," he says. "Whether it works or not, let the data tell."



Duke Global Health Institute

In the field: Duke professors Manoj Mohanan and Subhrendu Pattanayak, seated, in Bihar

DUKE360

Duke Research: A Decade of Growth

Duke's Rank Among
Research Institutions:

2000
20
2010
5

Based on total annual research and development spending. Source: National Science Foundation

Increase in R+D Expenditures:



Papers Published: 2001-2010



Faculty: 2001-2010



Graduate/Professional
Degrees Awarded: 2001-2010



Data courtesy Duke News and Communications

NOTABLE



- **Emanuel Azenberg**, adjunct professor of the practice of theater studies, will receive a Tony Award for Lifetime Achievement in the Theater at the Tony Awards in June. An eight-time Tony winner for his Broadway productions, Azenberg has taught at Duke for eighteen years.
- **Michael Bernert '12** was chosen as the first recipient of a \$25,000 grant from the Hart Leadership Program's Enterprising Leadership Initiative to launch a social venture. Bernert has created West African Ventures in Agriculture, a company that makes investments in agricultural projects in Sierra Leone and Liberia.
- **Richard B. Hays** has been appointed to a full term as dean of Duke Divinity School. Hays, the George Washington Ivey Professor of the New Testament, has served as interim dean since August 2010; he is a scholar of the letters of Paul and New Testament ethics.
- **Kenneth Hoehn '13** and **Clara Starkweather '13** are recipients of the Barry M. Goldwater Scholarship for continuation of their interdisciplinary research. Hoehn works in evolutionary biology and computer programming, and Starkweather works with music and neurobiology.
- **Stephen Jaffe**, professor of music, was inducted into the American Academy of Arts and Letters, the highest recognition of artistic merit in the nation.
- **Kristen Lee '13** has been named a Truman Scholar. Lee will pursue a medical degree and a master's in public health in the hope of working as both a clinician and activist for women's health and reproductive rights.



Ideas

MECHANICAL ENGINEERING

Making Motions Multitask

A new idea for harvesting energy from everyday motions

Imagine you're walking down the street and talking on your cell phone. You've been talking a while, but you're not worried about the battery dying because the motion of your walking is creating enough electricity to charge your phone.

This isn't possible with current energy-harvesting technology, which is designed for consistent motions, such as walking at a steady pace on a treadmill. But a team of engineers at Duke has come up with a theory for

improving those devices so that they can more efficiently capture energy from everyday motions.

"A traditional linear harvester would only be able to take advantage of a very limited frequency," says Benjamin Owens '10, a graduate student at the Pratt School of Engineering. That may work fine in a lab setting, where variables like speed and direction can be controlled. But in real-world applications, linear devices would capture only a fraction of the energy expended in walking

down a crowded street.

The Duke engineers reworked the principles to account for a greater range of frequencies. Their model uses magnets to change the orientation of piezoelectric material, which generates electricity when bent, essentially allowing it to "tune" to a greater range of motions.

"Being able to capture more of the bandwidth would make it more likely that these types of devices would have practical uses in the real world," says Brian Mann, associate professor

of mechanical engineering and senior researcher on the study. Potential applications might range from a cellphone to a pacemaker or cardiac defibrillator. Mann is investigating whether such nonlinear devices could power sensors on buoys by extracting electricity from the motions of waves or could be applied to even larger devices.

—Richard Merritt



What big eyes you have: A North Sea squid's awesome orb

MARINE LIFE

Here's Looking at You, Squid

Peering into the workings of life's biggest eye

Giant and colossal squids have the largest eyes of any animal—orbs as big as basketballs—but it's not like the sea creatures have X-ray vision. So why the big eye?

Associate professor of biology Sonke Johnsen says it's all about defense. "They're

most likely using their huge eyes to spot and escape their predators, sperm whales," says Johnsen, who collaborated with a group of biologists to model how the giant eyes work.

The team found the design and size of the eye maximize a squid's ability to detect

tiny contrasts in the dimly lit waters of the deep ocean. This enables squids to see approaching sperm whales as they disturb bioluminescent organisms from as far away as 120 meters. That's not far enough to avoid a whale's sonar, but it may offer enough time to plot an escape.

WHAT WE'VE LEARNED: THE BRAIN

Five things that came out of the Duke Institute for Brain Sciences' annual **Brain Awareness Week**, a series of public lectures held in March:

1. The brain is inherently empathetic. Human brains are highly evolved from early childhood to read the mental states of those around us within fractions of a second. Making mental-state inferences is so instinctive that we tend to treat a non-human entity as if it were a person, too.

2. Humans aren't alone in their capacity for emotions. Guest lecturer Jaak Panskepp, a neuroscientist at Washington State University and an expert on animal emotion, pointed out that rats and other animals respond to tickling, and brain scans suggest that they're in on the joke.

3. Telekinesis may be closer than you think. Duke neurobiology professor Miguel Nicolelis reported on advancements in biomedical engineering that may soon make it possible for a human brain to interact directly with a machine. Nicolelis is building a prototype device that would allow paralyzed patients to move their limbs with their thoughts.

4. If you are pregnant, it might be a good idea to eat more foods with choline. This little-known B vitamin not only helps us move our muscles, but it's also the basis for the main neurotransmitter that fuels memory. Studies in rats have found that adding choline to a prenatal diet gives a boost to the developing brain, making them more resilient to trauma and the effects of aging.

5. Wear a helmet. The brain's three natural layers of protection are no match for the force of, say, falling on pavement from a bicycle. During the week's activities, families performed experiments using eggs and prisms to mimic the damage such a fall can inflict.





BIG QUESTION

Why do people buy lottery tickets?

*When the Mega Millions jackpot went over \$600 million in early April, people waited in long lines to buy a ticket, giving them a one-in-175 million chance of winning the grand prize. With such slim hopes of striking it rich, why do people play? Charles Clotfelter '69, Z. Smith Reynolds Professor of public policy, law, and economics and coauthor (with public policy and economics professor Philip Cook) of *Selling Hope: State Lotteries in America*, responds:*

Economists don't like lotteries because they are a terrible investment. Out of every dollar players spend on state lotteries, only about 60 cents ends up back in their pockets, in the form of prizes, with the rest going for operating expenses and revenue for the state. Yet surveys reveal that more than half of adults do play the lottery at least once a year, and a small minority of players bet heavily.

One explanation given years ago by two economists is that those who gamble, unlike the majority of us who are risk-averse and buy insurance to protect us from risk, actually seek out opportunities to take a chance.

Another, and I think more persuasive, way of looking at lottery play is simply as another form of entertainment. No one expects playing a video game or going to a movie to be a good investment. We should think of playing the lottery in the same way. Viewed as just one more form of entertainment, lotteries are no more irrational than any number of leisure activities. To be sure, gambling often has the element of superstition, with many bettors playing lucky numbers or otherwise believing that their behavior can influence their chance of winning. And state lotteries sometimes encourage this kind of magical thinking, using such messages as, "Don't let your number win without you."

HEALTH CARE

Your Health, Guaranteed

Proposed tweak to health-care law could save billions.

Amid the rancor over the future of the Affordable Care Act (ACA), a Duke student has come up with a small tweak to the law that could save taxpayers billions.

Noah Kalman, a dual-degree M.D./M.B.A. student at Duke's Fuqua School of Business, suggests that hospitals be required to offer patients warranties on medical services. In a paper for *The New England Journal of Medicine*, Kalman and two coauthors say such a provision could reduce hospital readmissions that now cost Medicare \$17 billion each year.

According to a 2009 study, nearly 20 percent of Medicare beneficiaries are re-hospitalized within thirty days of discharge, often because of infections,

complications, or inadequate communication during their initial visit. "Unfortunately, hospitals have no financial incentive under the current Medicare reimbursement system to reduce readmissions," says Kalman. "The ACA's proposed penalties for hospital readmissions are likely too weak to solve the problem, and the ACA offers no benefit for hospitals that reduce their readmission rates."

Kalman and coauthors Robert Berenson, from the Urban Institute, and Ronald Paulus, from Mission Health System in Asheville, write that the ACA could be modified to allow Medicare to either eliminate or reduce payments for many or all readmissions within a designated period after discharge.

LEARNING

When Fantasy Is Reality

Study shows why Hollywood is a bad teacher.

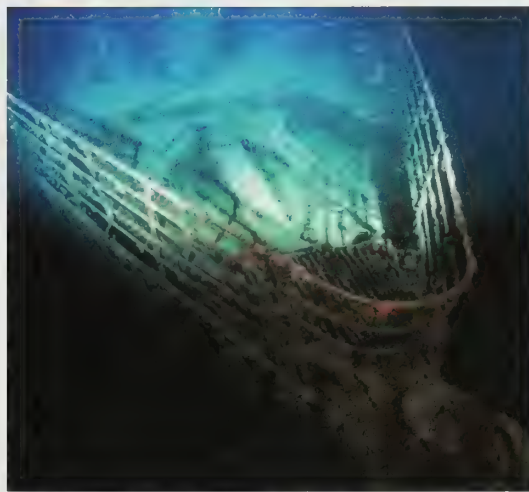
In the blockbuster movie *Titanic*, First Officer William Murdoch is portrayed as a ruthless villain who shoots two men as the ship goes down.

Problem is that never happened. The real-life Murdoch was last seen launching lifeboats and likely died in the water.

It's no secret that Hollywood plays loose with the facts when dramatizing real-life events. A recent Duke study, however, says those inaccuracies tend to settle in students' minds as truth, making it more difficult to teach what really happened.

In the study, Duke undergraduate students read a short text about a historical event or figure before watching a five-minute clip from a corresponding movie. The films included *Glory* and *Amadeus*, which intermingle true events and dramatized action. When asked to identify the inaccuracies in the clips, students only managed to find 35 percent of them. Worse, the students asked to separate truth from fiction came away with just as many misconceptions as students who were asked only to watch the clips.

"Unfortunately, students aren't very good at catching the major historical inaccuracies in popular films, even when explicitly asked to do so," says Sharda Umanath, a doctoral student in Duke's psychology department and lead author of the study. She says the study underscores the need for teachers to reinforce the differences between movie fantasy and reality.



Seeing isn't believing: Films such as *Titanic* don't float on facts.

While You Were Sleeping

In search of a good night's rest at the Millennium Hotel | By Elissa Lerner

The Patient

Sheema Hallaji is beat. After a double shift in the Duke Hospital pharmacy, she can't wait to pass out. She changes out of her work clothes, pulls her hair back into a ponytail, and sets her iPhone at bedside. But before she can settle down into bed, a technician needs to mark her head with a green grease pencil and glue on a set of electrodes.

With her wedding approaching, Hallaji hasn't been sleeping well, and so she has come to spend a night in the Millennium Hotel near West Campus to find out why. Her room is not quite a normal hotel room: It's been converted by the Duke Sleep Disorders Center, a clinical research lab affiliated with Duke Medicine. The lab has equipped fourteen rooms at the Millennium with monitors to record patients' sleep, logging brain activity, breathing patterns, and muscle movements—data that can help doctors figure out their patients' sleep issues. While sleep labs exist in hospitals across the country, Duke's is one of the few that is housed in a hotel, the idea being that homey surroundings make the experience—that is, attempting to sleep naturally with wires coming out of your head while strangers monitor you on video—slightly less uncomfortable.

At a prep station, Hallaji sits patiently as Brandi Elliott, a sleep technician, outfits her head and body with electrodes, a meticulous process that takes around forty-five minutes. As Elliott applies a glue compound into her carefully blow-dried hair, Hallaji groans. She'll have to wake up earlier than expected to shower the glue out before her 6:30 a.m. shift. (At least she doesn't have stubble: Male patients with short and spiky beards and hair often require Collodion, a powerful and acrid medical-grade glue, to keep the electrodes in place.)

Elliott connects Hallaji's Medusa-like head of multicolored wires to an EEG headbox known as "the pack." The pack hangs around her neck as Hallaji makes her way back to her room. She climbs in bed, careful not to dislodge the electrodes on her legs and arms. Overlooking the bed

is an oblong glass-encased camera with a dim red light, eerily reminiscent of HAL in *2001: A Space Odyssey*. An intercom behind the bed allows communication between the patient and the observation room. Patients must ask to be unhooked if they need to get up to go to the bathroom. Even rolling over can be difficult without yanking something out of place.

Hallaji is nervous—she hates sleeping with pants on—and momentarily gets self-conscious about the video camera before burrowing under the blankets. Elliott connects the pack to a computer beside the bed and slips a pulse monitor over one of Hallaji's fingers. Finally, it's lights out. As Elliott leaves the room, Hallaji reads on her iPhone for a few minutes and then closes her eyes. With any luck, she'll get at least five hours of measurable, if not uninterrupted, sleep—the minimum needed for a usable study.

The Tech

As Hallaji settles in for the night, so does Brandi Elliott. She retreats to a nearby observation room, where she and other technicians confirm the equipment is working properly and continue to monitor their slumbering patients. At Elliott's workstation, a large computer monitor shows three streams of data—brain activity scrolls along the top, eye and leg movements in the middle, and breathing patterns on the bottom. Overhead, a small black-and-white television shows her patient sleeping.

On a busy night, seven techs work in the observation room, each observing two patients. This night is a quiet one. As the techs make notes on data readouts, there's only the faint hum of static over the intercoms. Often, there's a cacophony of snoring.

Those techs are adept at quickly reading the data flowing by. Like composers mentally assembling music from a sheet of notes, they synthesize patterns that tell them what stage of sleep each patient is in. Craggy-looking brain waves are a sign of stage 2 sleep, when you've fallen away from outside stimuli. Loose, rolling waves indi-

cate stage 3 sleep, a deep sleep more common among teenagers than adults. Eye movements are a dead giveaway for REM sleep. The techs are also good at spotting suspected cases of apnea, one of the most common disorders seen at the lab, and sometimes provide patients with special masks for part of their studies.

For the most part, though, monitoring sleep is a low-key job. There's usually time to read or study. Elliott even likes the unusual schedule. She drives to Durham from her home in Hickory, North Carolina, each Wednesday and stays through Saturday morning, sharing a room at the Millennium with another tech. "I wake up by 5:30 p.m., I'm upstairs by 6:20, I go back down in the morning at 7:30 and sleep ten hours. It's great," she says.

The techs find various ways to stay alert during the nights. Some of them hum to themselves while marking up studies. Elliott makes a weekly Kroger run for nighttime snacks. The break-room refrigerator is stocked with ten varieties of two-liter bottles of soda.

The Doctor

Everyone can relate to sleep problems, says Rodney Radtke HS '84, director of the sleep lab, because "everybody does it." Still, with greater knowledge about the connection of sleep disorders to heart attacks and strokes, people are paying closer attention to the third of our lives we spend sleeping.

Radtke reads patients' sleep studies shortly after they are performed and offers his medical diagnosis. The thirty-year-old lab has seen some of the more unusual sleep disorders—parasomnia, for example, in which patients physically act out in their sleep, or disordered sleeping patterns. But the most common problem, by far, is sleep apnea, the involuntary suspension of normal breathing while asleep. Its incidence is increasing in part because of nationally rising obesity rates.

"When you have a large abdomen, breathing is harder," Radtke explains. "And men and postmenopausal women have fatter necks, so the airway can collapse."



Les Todd

For the most straightforward cases, a sleep doctor will prescribe a CPAP device that fits over the nose and mouth to apply continuous air pressure, tailored to the patient so that he or she won't keep waking up due to breathing abnormalities. But sometimes the problem is behavioral or psychological. In that case,

Dreams of sleep: Lab patient Aaron Edgley is wired for the night.

Radtke will refer the patient to an appropriate doctor. Some people misinterpret the field, thinking a sleep lab can help make sense of strange dreams or lucid sleep, but Radtke is emphatic about his work. "I'm a clinical sleep doctor, not a researcher," he says. "The purpose of sleep, or REM sleep, or

why we dream, we don't know."

So whatever is bugging Hallaji's sleep may show up in the dips and waves of her physiological measurements. And if it does, the lab can diagnose her problem. But then again, it may not. Sleep is still largely mysterious, an internal world that all of us, in the end, navigate alone. Even when we're being watched. ■

What's in It for *me*?

A culture of incentives pervades our jobs, our legal system, and even our parenting. But one Duke professor warns that too many carrots may be undermining our sense of what's right.

BY ROBERT J. BLIWISE

I

really want you, resolute reader, to read this entire story. Yes, that's you. And it's really important. So what will it take to make it happen? Maybe a personal note of appreciation? Or a Starbucks coupon? Or the guarantee that your favorite student will attend Duke tuition-free?

What makes this a vital read is that it's all about your behavior. It's all about that big, important thing you did—or had someone else do—and how it resulted from incentives. Maybe it was carpooling so that you could zip along in express traffic lanes during rush hour. Or maybe it was contributing to a charity to take advantage of a tax deduction. If you're a teacher, perhaps you offered extra credit for students who speak up. If you're a New Jersey-based company, maybe you're pledging to add jobs and tap into \$1.57 billion in state tax breaks. Or maybe it was a disincentive that moved you: the tax that made cigarettes too expensive, or the parking fine that kept you between the lines.

We may not always focus on the incentives driving our actions, but they're too prevalent to ignore as something of scholarly interest, says Ruth Grant, a Duke political scientist and senior fellow at the Kenan Institute for Ethics. Her new book, *Strings Attached: Untangling the Ethics of Incentives* (Russell Sage Foundation and Princeton University Press), looks at incentives as the tool we reach for increasingly to create



change, whether in government, in education, in health care, in private life, and between and within institutions of all sorts.

Incentives could be viewed as a form of trade, she says, and a trade is inherently ethical; it's a voluntary transaction that will occur only if both of the parties involved believe that they benefit from it. But not all incentives and disincentives are alike. Some we would recognize as bribery or blackmail. Others straddle a borderline between persuasion and coercion—a borderline that might change depending on someone's position in life. In the book, Grant notes that in North Carolina, at one time, a licensed driver of high-school age could lose that license temporarily if he or she were failing a course. On hearing of that policy, her young daughter told her, "That's a good idea." Her teenage son said, "That's blackmail!"

Grant says she's not necessarily an enemy of incentives. "There are lots of perfectly legitimate uses of incentives. But we shouldn't be complacent about them; we ought to be a little bit worried about the ways we can be misled by just embracing incentives as the quick fix for every kind of problem. We've gone overboard in thinking that this is the only way to handle our social and public issues."

One of the ethically fraught illustrations of incentives, she says, is paying children for earning good grades. (Part of the issue, she points out, is that grades don't always

correlate with learning, so the incentive may be for an easy-to-measure but still less-than-ideal outcome.) Grading-based incentives may be especially problematic when the payments come from parents and not school systems, she says. “What does it say about the relationship if the parent doesn’t have better ways to influence the child’s behavior than money? I do think it is likely to send the wrong message. If a child is underperforming in school in relation to his or her abilities, there could be a lot of different reasons why. Financial incentives suggest that the parent only cares about results and wants the child to improve, not for the child’s sake, but for the parent’s.”

Some would argue further, Grant says, that paying kids for one thing undermines the roles and responsibilities of family life: “If you pay your child to mow the lawn, they’ll start to expect payment for washing the dishes.”

It was a classroom exercise that sparked

activity at about the same time—all of them concerned with some form of social engineering. One of those places was industry, where efficiency-minded engineer Frederick Taylor was advancing scientific management as a new tool for boosting production. Scientific management involved measuring precisely the amount of time needed to complete each element of the production process, dividing tasks in a rational manner, and making sure workers understood the expectations for accomplishing their tasks. Through the right techniques, incentives among them, experts could engineer a situation to make you ideally productive.

“Incentive” also had a place in the developing field of behavioral psychology. If you ever had the incentive to plow into a psychology textbook, you’d remember the name B.F. Skinner. According to Skinner and other behavioral theorists, you’re basically a flesh-and-blood stimulus-response mechanism, entirely reactive to external

Probably nothing illustrates that more vividly than the financial meltdown of 2008, which began when the financial-services sector manufactured and sold toxic debt securities for trillions of dollars. The meltdown, of course, pushed the world’s financial system to the brink of disaster. At least as critics see it, a big part of what drove the sale of worthless assets was a misshapen incentives culture pervasive in the securities industry.

One of those critics, William D. Cohan ’81, wrote in *Bloomberg View* in February, “What is painfully clear...is that the incentive system on Wall Street that rewards bankers and traders for the revenue they generate by constantly selling whatever comes across their desks, regardless of its quality, is terribly, terribly broken.” With a nod to Skinner, he observed, “People are simple: They do what they are rewarded to do, and they will continue to do that over and over again until they are rewarded to do something else.”

MONETARY INCENTIVES—SAY, PAYING FOR GRADES—CAN CROWD OUT LESS MERCENARY MOTIVES. STUDENTS LEARN THAT THE ONLY IMPORTANT QUESTION IS, “What’s in this for me?”



Grant’s incentives investigation. She was teaching on the subject of ancient Greek political philosophy. In the opening scene of Sophocles’ *Philoctetes*, Philoctetes is holding onto Achilles’ bow; the Greeks need to release the bow from Philoctetes’ grip to defeat the Trojans. Odysseus is trying to persuade the noble young son of Achilles, Neoptolemus, to help him retrieve it deceitfully. Neoptolemus considers it, well, more noble to use force than to use deceit. Class: Please discuss.

So one of Grant’s students wondered, What about some incentive? And Grant wondered, Why not? Everyone has his price, presumably including every Greek, though, for some reason, not in Sophocles’ play.

Grant takes a big jump in the book from ancient Greece to early twentieth-century America, when the term “incentive” appeared in different spheres of

stimuli—and therefore almost infinitely malleable. Through so-called “operant conditioning,” then, you would learn to behave in certain ways in response to positive reinforcement of those behaviors.

Today, Grant writes, incentives aren’t just seen as expressions of social-engineering principles. The term “incentive” has come to be used broadly and indiscriminately, often including market forces—and often removed from ethical considerations.



Cohan, a former investment banker and the author of *Money and Power: How Goldman Sachs Came to Rule the World*, added, “Now, four years after the crisis started—and despite the Dodd-Frank law intended to reduce the risks on Wall Street—not one thing has changed in what bankers and traders are rewarded to do. Until that happens, you can forget about preventing another crisis on Wall Street.”

That verdict from Cohan received a kind of

Complex ethics: Grant says that incentives can be beneficial but shouldn’t be a quick fix for all social and public issues.

validation with the very public resignation from Goldman of one of its executives, Greg Smith. The “quick ways to become a leader,” he wrote in his instantly famous *New York Times* op-ed column, included trading “any illiquid, opaque product with a three-letter acronym” that would return a profit to Goldman. “Today, if you make enough money for the firm (and are not currently an ax murderer) you will be promoted into a position of influence.” Beyond the realm of moral outrage, it’s hard to say what incentive would drive you to make such a conspicuous gesture of repudiation. It did, though, reportedly land Smith a \$1.5 million book contract.

Around the same time, an opaque three-letter organization—the NFL—was wrestling with its own incentives-oriented controversy. The league sidelined the coach of the New Orleans Saints for a year for his role in a dramatic application of incentives, dubbed a “bounty program” by the news media. The program promised money to players if they injured opponents and knocked them out of games. It ran from 2009, the year the Saints won the Super Bowl, to 2011, and it included bounties on four quarterbacks. In one e-mail note that turned up in the investigation, a player confirmed that the Saints’ defensive coordinator had “put me down for \$5,000,” the agreed-on rate for knocking out the quarterback for the Green Bay Packers.

Grant writes that the application of incentives can be judged by whether it serves a legitimate purpose, by whether it allows a voluntary response, and by its effect on the character of the parties involved. In real life, of course, it’s not always easy to make such broad judgments. She points out that cost containment in health care is a legitimate purpose; so is delivering the best possible care to you, the patient. To the extent that a cost-containment imperative creates incentives for your doctor to under-treat you, it’s bribery and so isn’t legitimate.

There’s another layer of ethical complexity, Grant says. Does this incentive system work better than other options? Incentives for recruiting you as a subject of medical research may work no better than convincing you of the virtues of your participation. Then, is it fair? When the

large company you work for receives incentives—that is, taxpayer money—to relocate, presumably the idea is to promote economic growth. But it may be that the government is giving you an unfair business advantage. And finally, are there strings attached, perhaps to the point that someone is unduly influencing you or is getting something at your expense? If Greg Smith is to be taken as credible in his indictment of his former firm, there

were endless strings attached to promotion through the ranks of Goldman Sachs.

If there’s an even more dramatic strings-attached scenario, it’s the bailout of national economies by international institutions. As a condition for receiving bailout aid from the International Monetary Fund, Greece had to agree to cut down on rampant tax evasion—probably a good thing—and to drastically slice away at its public sector—maybe a good thing



Mobile Incentives

What’s the most precious privilege in a university setting? Parking, of course. Much of the incentives culture on campus, then, involves the banal but basic need for getting around—including earning a prized parking space or enjoying a prized alternative. Duke’s parking and transportation-services office says it is committed, “as part of Duke’s continuing efforts to create a more sustainable campus,” to reduce traffic. So it offers an array of incentives, including:

GoPass, a free pass for local and regional bus service

Bull City connector, a bus service, free for all, between downtown Durham (which has a significant number of Duke employees) and Duke’s campus

A **carpool program** that includes free and convenient parking for groups of four or more people (students and employees normally pay to park)

A **vanpool program**, involving just nominal charges, for employees

WeCar, a membership-based car-sharing program on campus

A **free bike-borrowing program** for students

And, of course, **walking**—which provides the ultimate incentives of exercise, environmental friendliness, and absolutely no transportation fees

by standard thinking, but with the consequence of a shrinking economy. And determining what counts as “voluntary” can be a vexed question. Greece seemed to have little choice in the matter of the bailout.

As Grant notes in the book, over time the loan conditions have become more invasive; they have multiplied as the purposes of the IMF have changed and expanded. What was once the limited goal of solving temporary liquidity problems has become the broader goal of fostering sustained economic growth. Such incentive programs can do good things, Grant says: When the IMF imposes loan conditions, it may be providing the incentive for a government to change the behavior that created the problem in the first place. But agreements that can be considered voluntary seem less than voluntary when

Back on the familiar home front, Grant questions the effectiveness—and the fairness—of plea bargaining. She notes in the book that less than 10 percent of felony prosecutions actually go to trial; the other 90 to 95 percent are settled by a plea of guilty by the defendant. The Supreme Court acknowledged the prevalence of plea bargaining in a March ruling: Criminal defendants have a constitutional right to effective lawyers during plea negotiations. In writing for the majority, Justice Anthony M. Kennedy noted, “Criminal justice today is for the most part a system of pleas, not a system of trials.” He added, “The right to adequate assistance of counsel cannot be defined or enforced without taking account of the central role plea bargaining takes in securing convictions and determining sentences.”

The role may be central, but that doesn’t

matters worse, punishment is distributed inequitably. If you’ve committed the same crime in similar circumstances as someone else, you’re still likely to be offered different deals. Or, because you’ve exercised your right to trial and someone else didn’t, you’ll see different outcomes.

When the legitimacy of the system is undermined, the effects ripple through the society, Grant says. “Anyone having contact with the criminal-justice system is affected. A victim of a crime that could be described as kidnapping and assault with a deadly weapon is left bitterly cynical when his assailant is caught and charged with simple robbery, which puts him back on the streets in a few months. People living in high-crime communities, which may have the greatest contact with the police and prosecutors, become distrustful and disaffected. This is not a trivial con-

DEPENDENCY RELATIONS, INCLUDING THE USE OF INCENTIVES TO RECRUIT VULNERABLE POPULATIONS, CAN LAND MEDICAL RESEARCH IN **ethically suspect territory.**



private capital is no longer forthcoming and a nation’s economy is in crisis. It also may be tough to reconcile democracy or popular participation with economic policies dictated by outsiders.

And there’s an issue of effectiveness: Reaching for incentive programs as a tool for solving complex problems often involves a failure to appreciate the limits of power. Another hard-pressed government, Ireland, agreed to tax increases in return for the incentive of some \$90 billion in international loans. But the government acknowledged that around half of Ireland’s estimated 1.6 million homeowners failed to pay a new property tax by this year’s March 31 deadline.

make it desirable. Plea bargaining—through which a defendant agrees to plead guilty in exchange for a reduced charge, a reduced sentence, or both—undermines the purposes of the criminal-justice system, Grant says. And so it undermines the legitimacy of the system.

As Grant sees it, a plea bargain always gives you, as the defendant, either more or less than you deserve. In principle, then, it is “an inappropriate means toward the end of meting out justice.” It’s hardly a meaningful expression of autonomy. “Either the defendant is guilty but gets off easy by copping a plea, or the defendant is innocent but pleads guilty to avoid the risk of greater punishment.” To make

sideration in judging the ethics of plea bargaining.”

There’s nothing trivial, in Grant’s view, about another incentives area she scrutinizes, recruiting research subjects. The issue is sometimes clouded by the choice of words used to describe the transaction. “Research participants” or “participants in a study” sound like active agents with a certain dignity, she writes in the book. “Subjects of medical experiments” are passive beings who will be acted upon by others: That language makes the ethical problem more apparent.

“Ideally, volunteers are those who would willingly join in the research enterprise and be highly motivated to con-

tribute to the progress of medicine,” she writes. But what if there are not enough volunteers? Well, if the risks are unreasonable, it would be unethical to ask anyone to take them regardless of whether they are asked to volunteer or are offered incentives, Grant says. If the research project involves reasonable risks in relation to benefits, offering incentives to recruit subjects would not raise ethical problems.

The proponents of incentives in research “are certainly correct that it is a voluntary action when a very poor person agrees to participate in research in exchange for a large sum of money,” Grant writes. “But those who characterize this sort of choice as an undue inducement also have a point.” In general, she adds, incentives always are employed to induce individuals to do what they might not do; the ethically suspect incentive is used to induce individuals to do something to which they are strongly averse. So dependency relationships, including the use of incentives to recruit poor and vulnerable populations, can land research in ethically suspect territory.

A bonus for completing an innocuous research study—perhaps filling out a simple questionnaire on several occasions—may pose no ethical problems. But if the research is painful, debilitating, or distressing for the subject—repeated biopsies, for example—a bonus can be seen as representing “undue influence,” Grant says.

Respect for persons, Grant says, is an ethical imperative and “requires refraining from making seductive offers—offers that *ought* to be resisted in some sense.” And even outside the realm of recruiting research subjects, if you hook someone—say, your child—on performing for an incentive, he’ll perform less well and lose interest sooner than a child who is not rewarded. The incentive diminishes the intrinsic motivation. In the book, Grant offers a global assortment of examples from ordinary adult life. British women offered cash to donate blood were almost 50 percent less likely to step up as donors than women who were asked and were offered nothing. Swiss citizens were significantly less likely to accept having a nuclear-waste facility as a new neighbor if the arrangement involved monetary compensation. Indian research subjects offered large bonuses to complete simple tasks performed less well than subjects given smaller bonuses.

Sometimes kids and other recalcitrant individuals might need incentives as basic motivators, says Grant: With the super-

recalcitrant, maybe there’s no other way to inspire school attendance. “But there could be all kinds of other avenues. Even within the category of incentives, giving students cash to perform is totally different from giving students scholarships, even if it’s the same financial value. If you offer students scholarships, what you’re saying is, what you get for committing to education is more education, and education is a wonderful thing. If you give them cash, you seem to be communicating the message that education in itself is valueless—that you would only do it if you could get something else of value to compensate for wasting your time.”

Incentives used to motivate your children to learn are “centrally involved with the character question,” Grant writes. And a concern with character “involves encouraging children not only to do the right things but also to do them for the right reasons.” Monetary incentives—say, paying for grades—can crowd out less mercenary motives, “producing a negative effect on character as well as on outcomes.” The behavior becomes driven by a sort of calculus of pain and pleasures. According to Grant, “In an educational setting, if monetary incentives are employed, students learn that the only question it is important to ask is, ‘What’s in this for me?’ And, not surprisingly, this leads to an increase in cheating as well.

“This is a general result of the use of incentives. Where people are paid to give blood, more of them will lie about their health status. Where teachers’ incentives are tied to students’ test performance, more teachers will change their students’ answers on the exam sheets. Where students work in an environment that values only extrinsic rewards for learning, cheating goes up.”

All of which means that if you embark on a reading encounter—say, reading a story about incentives and ethics—without the lure of incentives, that’s a good thing. It’s good for your learning, and it’s good for your character. Revel in your standing as a responsible agent. Recognize that you resisted the challenge to your freedom of action. Feel virtuous for reassuring yourself that a Starbucks coupon wouldn’t sway your habits.

That single coupon could be an easy-to-ignore incentive. What about a full week’s worth of Starbucks coupons to satisfy a latte imperative? That could make you feel like Greece—boxed-in and finding it impossible to say no, whatever strings are attached. ■



© K.J. Historical/Corbis

NOT ALL
INCENTIVES
AND
DISINCENTIVES
ARE ALIKE.
SOME WE
WOULD
RECOGNIZE
AS BRIBERY
OR BLACKMAIL.
OTHERS
STRADDLE A
BORDERLINE
BETWEEN
**persuasion
and
coercion.**

Ready 2...1...0 Launch

Four years ago, five freshmen shared their expectations of college life with *Duke Magazine* as they embarked on their college journey (“Frosh Faces,” September-October 2008). Now, as they prepare to head out to jobs and graduate school, these members of the Class of 2012 reflect on where they’ve been and what lies ahead.

BY BRIDGET BOOHER
PHOTOS BY JON GARDINER

Uniform intentions:
Former U.S. Marine
Salem aspires to be a
compassionate
physician.





Paul Salem

A MORAL IMPERATIVE TO HEAL

As the oldest member of the Class of 2012 and its only combat veteran, former U.S. Marine Paul Salem arrived on campus with a clear sense of purpose. After a tour of duty that included counterinsurgency operations as part of Operation Iraqi Freedom, Salem came to Duke determined to become a physician. In addition to a premed curriculum, he volunteered with Duke EMS, Duke Hospice, and the extended care and rehabilitation center at the Durham Veterans Affairs Medical Center. Last summer, he worked at a community clinic near his family's home in California.

Salem also took some time out of his premed schedule to explore topics that intrigued him, including a classics course and a class on the Old Testament. Through a forensic-anthropology course his sophomore year, he met paleontologist Steven Churchill, who became a mentor and adviser. The two worked together on Churchill's research into how the development of Stone Age projectile weapons contributed to human evolution. He also became engaged to classmate Mona Xiao '12, whom he began dating freshman year.

Coming out of the military, Salem had considered specializing in emergency or trauma medicine. But his experiences at Duke have broadened his perspective.

Hard work and preparation aren't enough for "living with a clear moral purpose."

"As a Marine, you're trained to take action and accomplish the mission at hand," he says. "My hope in doing the volunteer work I did in hospice and the clinic setting was that I would learn to be a more compassionate caregiver. I've had to consider that hard work and preparation, while necessary, are not sufficient for living with clear moral purpose. I hope that learning to become a physician will allow me to

combine the discipline and perseverance I learned in the military with an appreciation for the beauty of human life."

This fall, Salem begins the next leg of his journey when he matriculates at the Mayo Medical School in Rochester, Minnesota. At this point, he says, he has no idea what area of medicine he'll specialize in. "I just want to take care of human beings in the most satisfying way possible."



Phyllis Mbewe

ENGINEERING FOR ENVIRONMENTAL HEALTH

International student and University Scholar Phyllis Mbewe came to Duke with a plan to focus on infrastructure issues related to her home country of Zambia. But her research interests quickly expanded to broader issues in environmental engineering, such as groundwater remediation and improving sanitation in developing countries. Enrolled in the Pratt School of Engineering, Mbewe spent many days and nights in Hudson Hall. She conducted research as a Pratt Fellow with civil and environmental engineering associate professor Zbigniew J. Kabala and later did an independent study with professor Marc Deshusses.

In addition to the long hours spent in the lab, Mbewe pursued fieldwork opportunities that included testing the effluent quality of drinking water and wastewater during one of her summer vacations in Zambia. She also spent a summer in Kenya participat-

ing in a DukeEngage program with the Foundation for Sustainable Development, a non-governmental organization. While in Kenya, Mbewe worked on a recycling project with unemployed women and youth, helping them gain skills to create recycled products that could be sold.

"I told them that Duke is not easy, but that they can learn to stand on their own two feet."

Although her intensive engineering curriculum allowed little free time, Mbewe was able to indulge in a few non-science pursuits. She took courses in art history, French, economics, and psychology. She sang with the a capella group Sapphire, played Ping-Pong with friends, and served as a freshman advising counselor. Her freshman writing course, "Dance Into Words," which required students to attend performances, write reflective and critical essays, and participate in dance, introduced her to capoeira, a Brazilian hybrid of martial arts, dance, and music. Unfortunately, she says, she was never able to fit in a swimming class into her engineering schedule, so she still hasn't learned to swim.

Mbewe also has served as a mentor to three other students who came to Duke from Pestalozzi International Village Trust, the British high school she attended. "I told them that Duke is not easy," she says, "but that they can learn to stand on their own two feet."

After graduation, Mbewe will attend graduate school in the U.S. to earn a master's and Ph.D. in civil and environmental engineering. "Eventually I would like to teach and do research in Africa, but I also want to gain experience by working in industry," she says. "Whatever happens, I still want to have an impact on improving conditions back home in Africa."

Where she's from, where she's going: Mbewe says her post-Duke plans will eventually lead her back to her African roots.



Lauren Brown

SETTING A HIGHER BAR

By the time Lauren Brown came to Duke, she had achieved success in the demanding world of professional ballet, devoting her childhood and teen years to perfecting her craft and spending a year with the Pennsylvania Ballet company between high school and college. After sacrificing “a normal childhood” for a life where ballet was everything, she embraced the array of academic and extracurricular choices that Duke offered.

“Duke is a place where you can learn what you want to be.”

The New York native immersed herself in physical activities like Bikram yoga, skiing, and basketball, which had been off limits because of the risk of injury or alteration to her ballet physique. She went skydiving at sunset, tented in K-ville, taught herself guitar, and took a drawing class. She joined the debate team and pledged Kappa Kappa Gamma. She forged close friendships with faculty members, several of whom became mentors. She became chief of campus involvement for the Duke University Partnership for Service, an umbrella group for student-led service organizations dedicated to social action. And she tutored engineering and science students in the Durham public schools.

Brown took a wide range of psychology courses with an eye toward medical school. But her innate curiosity led her to take additional courses in markets and management, software and Web development, and economics. The trajectory of her coursework and summer jobs led to an avid interest in advertising and marketing. She’s been hired by Durham’s McKinney advertising agency and is excited about combining her creativity and understanding of human behavior with the data-driven science of marketing.

“I remember hearing when I was applying to colleges that Duke was a place where people were always willing to help you get to where you wanted to go, and that’s been my experience,” says Brown. “It’s a place where you can learn what you want to be rather than being pigeonholed.”

Even as Brown is poised to launch herself professionally, she continues to supplement her lifelong bucket list. Seeing the pyramids in Egypt. Mastering *Rhapsody in Blue* on the piano. And turning a mountain of handcrafted, custom-made pointe shoes into a huge piece of art, a sculptural tribute to a goal now crossed off that list.

Creative pursuits: As a professional dancer, Brown perfected grace under pressure, a skill that will serve her well in marketing and advertising.



Paul Harraka

PURSUING THE POLE POSITION

On a windy spring afternoon, professional NASCAR driver Paul Harraka grabs a quick bite before heading to the airport to catch a flight to Boston. He's presenting a talk at the MIT Sloan Sports Analytics Conference on how economic shifts in NASCAR are forcing drivers to become more entrepreneurial. In the past, he explains, talent alone could propel a great driver such as Jeff Gordon or Jimmie Johnson to the front of the pack, and sponsors would sign on to cover the related costs of racing. But increasingly, the economics of the sport require drivers to secure private financial backing to progress through the ranks. Unless a talented driver has a wealthy family or private

investors, sponsors are unlikely to follow.

**"I'm
extremely
focused
on
going
fast."**

"I'm extremely focused on going fast," he says. "It's what I love to do. At Duke, I've sought out people and opportunities that have helped me identify ways to continue climbing the ladder toward achieving my goals."

He switched his major from mechanical engineering to sociology and earned a certificate in markets and management, taking additional classes in business, engineering, finance, and sports psychology.

He built networks of people who could help him think strategically about building a brand, including law professor and senior associate dean for academic affairs Paul Haagen, visiting associate professor in markets and management George Grody '81, and senior adviser to the president and provost for innovation and entrepreneurship Kimberly Jenkins '76, Ph.D. '80.

Harraka has been winning races since he was seven years old. He's made steady progress climbing the NASCAR ladder, a progressively competitive system

that begins with amateur races and culminates with the Sprint Cup Series. (He's currently in the Camping World Truck Series, one of NASCAR's three national series.) He is raising the significant capital needed to reach the Sprint Cup by selling an equity stake in his career, with investors sharing in his potential Sprint Cup winnings. (Sprint Cup winners earn, on average, more than any other professional athlete.) He's also joining with veteran NASCAR crew chief Richie Wauters, whose previous NASCAR teams have racked up multiple wins.

While he's in Boston, he'll meet with three key seed investors, including North Bridge Venture Partners general partner Carmichael Roberts Jr. '90, Ph.D. '96. Harraka was introduced to Roberts, who serves on the Duke Alumni Association board of directors, through DAA associate vice president Sterly Wilder '83, a long-time NASCAR fan.

"Carmichael helped me identify where exactly I wanted to get to with my career, then helped me think creatively about ways to get there," Harraka says. "His hands-on approach to helping me has made all the difference."

Harraka's racing schedule took him away from campus most weekends, but he was able to carve out time to be involved with the Newman Catholic Student Center and helped Duke's SAE (Society of Automotive Engineers) Competition team design and build open-wheel racecars. Although his undergraduate trajectory was unusual, he says he doesn't feel he missed out on anything. "I packed a lot in," he says, polishing off his lunch. "I wouldn't change a thing."

Winning formula: At Duke, Harraka built his brand with the same no-holds-barred approach he brings to racing.







Taylor Clarke

SHAPING THE DIGITAL MEDIA LANDSCAPE

**Clarke
admires
Facebook's
"move fast
and break
things"
ethos.**

When Taylor Clarke first arrived on campus, she pursued her interest in becoming an on-camera broadcast journalist. She landed an internship with Duke's Office of News and Communications, filmed broadcast segments about the university, and moderated webcasts on topics such as college admissions and career planning. As a Robertson Scholar, she spent a semester at the School of Journalism and Mass Communication at the University of North Carolina at Chapel Hill producing medical segments for the school's cable channel.

Wanting to use her voice in more of an advocacy and leadership role, Clarke joined the Panhellenic Council's executive board as head of public relations for Duke's largest student group, representing more than a thousand women. She became an undergraduate research scholar for Fuqua's Coach K Center on Leadership and Ethics and helped produce the Coach K Leadership Summit. She joined the advisory board of the Duke Colloquium, a university initiative that encourages students to incorporate leadership and service into their professional lives after college.

Clarke also sought opportunities to stretch beyond her comfort zone. She enrolled in a couple of military-science courses, where she was one of the only non-ROTC students in the class. She landed an internship with Bloomberg Television's Hong Kong bureau and later headed to Italy to spend a semester studying European history. As a senior, she signed up for a graduate-level biomedical engineering class that worked to bring a spinal-cord stimulation device to market. But what stretched her the most, she says, was learning from mistakes and how to recover from them.

She used the few setbacks she faced to her advantage. Clarke wanted to bring Facebook founder Mark Zuckerberg to campus to join Robertson Scholars benefactor Julian H. Robertson Jr. in a discussion about their reasons for signing The Giving Pledge—the effort to encourage wealthy individuals to give away most of their money during their lifetimes to philanthropic causes. Dozens of e-mail messages later, her Facebook contact, impressed with Clarke's drive and determination, told her Zuckerberg couldn't possibly break away to come to Duke—but was she interested in a summer internship at the company?

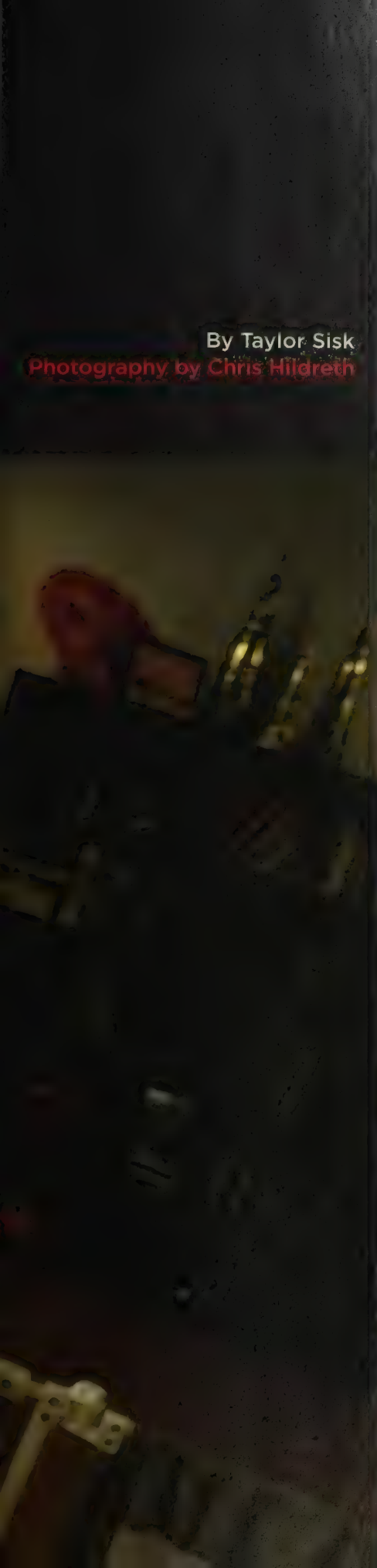
Clarke spent last summer working at Facebook's Palo Alto campus in the communications division. Clarke loved the innovative, "move fast and break things" ethos of Facebook. She's decided to pursue a career in digital and social media and is heading to Facebook's New York office after graduation.

"Facebook COO Sheryl Sandberg talks about having a long-term dream and a short-term plan," says Clarke. "My short-term plan is to work at Facebook, but my long-term dream is to make Duke proud."

Updating her profile pic:
Clarke is heading back to
New York to work for
Facebook.

The Narrative of places dark





By Taylor Sisk

Photography by Chris Hildreth

When bad things happen to children, many struggle to cope, and some fall into debilitating silence. A new treatment program is helping kids tell their own stories—and heal.

Crystal Collins was nine, and her dad would buy her nice clothes. Crystal's mother had given her up at birth, and her dad had raised her. He'd always seemed to take good care of her, tending toward overprotectiveness, picking her up from school and being selective about her playmates.

One day Crystal walked into her school and disclosed a secret. Some months later, in a journal entry titled "Introduction of My Life's Story," she wrote: "When I was 6 years old, I was sexually abused by my dad. Then I couldn't take it any more. He would do bad things to me.... He hurt me.... I thought I did something wrong."

Crystal (her family has requested that her real name not be used) revealed that the abuse had begun one day in her dad's car; she ran, he followed and returned her to the car, then took her to a McDonald's. Crystal said the abuse continued regularly for the next four years. There was physical evidence of sexual abuse. Her father had often choked her, she said. In kindergarten, around the time the abuse began, a social worker had described Crystal as being like a "caged animal," fidgety and distracted.

Savannah Akin never spoke of anything amiss at her daycare center, but she'd been having nightmares and was often irritable. Savannah had attended the center, run by a husband and wife, relatives of a neighbor, for three years, since she was fifteen months old. Several months after Savannah left to start attending preschool at her church, her mom, Ashley, received a call from a detective. The center had been shut down, he told her, because of allegations of sexual abuse.

Bit by bit, Savannah began to speak of abuse. "We just tried to be supportive of her, but not ask a lot of questions, just wait for her to talk with us when she was ready," says her mom.

After six months of therapy, Fiona Gardner seemed to be coping reasonably well with the death of her brother. But in time, it was discovered that she was struggling with the truth about that tragedy, a truth yet unrevealed—much too much for a four-year-old to process.

Safe at home: Fiona Gardner struggled with the death of her older brother.



Moments of joy: Therapy has helped Savannah Akin begin to let go of her anger and confusion.

Kids are generally pretty resilient; their bones heal more quickly than those of an adult, and slights are more readily forgotten. But few have all the tools to effectively respond to deeply traumatic experiences. As a result, such experiences in childhood often lead to prolonged, and debilitating, mental-health issues. Research conducted by the Centers for Disease Control and Prevention has shown that adults reporting one or more adverse childhood experiences are considerably more susceptible to health and social problems, including alcoholism, domestic violence, depression, and pulmonary disease.

“Most kid mental-health problems are a function of their environment, something bad they’ve experienced or something bad they were exposed to,” says Dana Hagele, codirector, with Duke professor Lisa Amaya-Jackson, of the North Carolina Child Treatment Program, which is working to help children overcome trauma. Many children have trauma in their lives, and most will get past it quickly. But some experience trauma at a level that’s considered traumatic stress, overwhelming their ability to cope, says Hagele, a child-abuse pediatrician and assistant professor of social

medicine and pediatrics at the University of North Carolina at Chapel Hill.

“Technically, it has a mental-health diagnosis—like post-traumatic stress disorder, adjustment disorder, separation-anxiety disorder—it technically has a definition that we work with,” Hagele says. “But really what we’re doing is treating symptoms, whether they’re behavioral or emotional,” to help them feel better and cope more effectively.

Hagele and Amaya-Jackson are leading a novel child-trauma treatment program now being taught to community health-service providers across North Carolina. The North Carolina Child Treatment Program—a partnership among the National Center for Child Traumatic Stress, the UNC School of Medicine, and the Center for Child and Family Health, which is a collaboration of Duke, North Carolina Central University, UNC, and Child and Parent Support Services—employs an approach called trauma-focused cognitive behavioral therapy, or TF-CBT. The therapy is an evidence-based treatment that addresses behav-

ioral and emotional difficulties in children following serious trauma or loss.

Kids in TF-CBT are taught deep-breathing and guided-imagery exercises, and they learn about healthy sexuality and when and how to ask for help. The treatment makes frequent use of stories, drawings, exercises, and games to help therapists interact with children in crisis. During one session with Savannah Akin, for example, Morganton, North Carolina, therapist Melinda Clontz gave the six-year-old a dream catcher—a webbed hoop adorned with feathers—and asked her if she had a specific nightmare.

Savannah did; it involved a wolf and a dog (there were dogs at her daycare center) coming to hurt her mother. Clontz worked with her to rewrite the dream, with words and drawings.

Savannah shows her dream catcher and describes how it works: “At night, if you have bad dreams, [the dream catcher] hangs up above your wall. And then [the dream] comes out of your head, and then it comes in here, and then it catches it so it won’t go back in your head.”

Every night, Savannah’s dad,

“It was little bits and pieces every time, just chipping away, chipping away.”

Scott, would read to Savannah the dream she had rewritten—in which the dog and wolf now dress in a cat suit and a clown suit, and a truck with a sign that reads “Happy birthday wofe dog!!” carries the wolf away—and now it no longer troubles her sleep.

Savannah hasn’t yet completed her sessions with Clontz, but, incrementally, she’s made great strides in addressing her fears.

More than 600 children in North Carolina have now completed the program, and the results are striking. At the beginning and conclusion of the sessions, kids

effective by multiple research studies and through clinical evidence. TF-CBT was given the highest level of empirical support in the U.S. Department of Justice’s Child Physical and Sexual Abuse: Guidelines for Treatment report.

It’s a short-term course of treatment and as such is relatively inexpensive. The current Medicaid rate is less than \$2,000 per child for completion. “We can train people to do it systematically and then expect them to do it systematically,” Hagele says.

The core of the treatment is the devel-

In the case of Fiona Gardner, that key was unlocking a deeply held secret. When Fiona was four, she witnessed her brother, Malachi, five, drown in their grandmother’s backyard swimming pool.

At first, Fiona experienced grief and some guilt about having argued with Malachi shortly before he died, but no major behavioral problems. She met with Jean Huryn, a psychologist in New Bern, North Carolina, for six months, and then stopped, seemingly doing well. But when her father went away for four months of military training, she began to have intense outbursts, sometimes in public, and couldn’t be calmed.

In Fiona’s sessions with Huryn, she had drawn a series of frames of the events of the day Malachi died—a long scroll, unfurling her memories. In it, she depicted her brother as a leaf. As she continued to describe the moments illustrated in her scroll, it emerged that Fiona was struggling with a more profound guilt—that maybe she’d done something wrong that had led to her brother’s death.

“That hadn’t even crossed our minds,” Huryn says. The account that had been given was that Malachi had wandered out to the pool, unnoticed, on his own. As Fiona continued to open up, her mother, Deb, detected significant discrepancies between what Fiona was saying and the original account. In fact, Fiona’s grandmother had left the children alone in the

pool. Fiona had warned her brother not to go into the deep end, but had been helpless to do more.

“In the process of telling the story, you’re asking them to describe the emotions,” Huryn says, and to let all the secrets out. With Fiona, there still was that secret. “I think what she was doing was knowing that Grandma doesn’t want Mom to know, so I can’t let Mom know.” Confusion was stacked upon guilt; in time, it tumbled. Her parents then resumed her sessions with Huryn.

Now seven and in first grade, Fiona remembers snippets of her visits with Huryn—blowing soap bubbles, the bigger the better, because it means you’re breathing slowly; throwing a big squishy ball back and forth; breathing deeply while thinking of floating on clouds above. She remem-



Steady progress: Scott Akin says his daughter shared her anxieties in bits and pieces.

are given standardized tests that address their behavioral and emotional functioning. Ninety percent of the children in the program start out showing partial or full post-traumatic stress disorder, says Hagele. “What the research shows is that more than 80 percent of the kids will be fine after the treatment, and our program is higher than 90 percent,” she says. “Ninety percent of the kids will drop below the threshold where we consider them to not have a problem anymore.”

The therapy has been tested and shown to work for ages three to nineteen. Clients have included children who have experienced sexual abuse, medical trauma, domestic violence, and traumatic grief, including some who have witnessed horrible deaths. To be considered evidence-based, a treatment must be proven

opment of a “trauma narrative,” through words or drawings or both, which children present at the end of the sessions to their parents or guardians. “Interestingly, when you talk to a kid who has been sexually abused or is telling someone for the first time, our assumption would be that [the abuse] is the worst thing in their lives, or the thing that’s giving them their symptoms,” Hagele says.

“What I’ve learned about trauma,” she says, “is that you can’t make assumptions and rank somebody else’s experience.” The proximate issue “might be the ongoing domestic violence in that house, or it might be that the only resource in that crazy environment was a grandmother who just died.” Finding the key to the gateway is the therapist’s task; the narrative then turns the key.



Fiona had drawn a series of frames of the events of the day Malachi died—a long scroll, unfurling her memories.

bers that it was fun, that she played. "It has to be fun for the child," Huryn says. "Otherwise, you're making trauma on trauma."

The active participation of a parent or guardian in TF-CBT treatment is also essential. "If the child does treatment alone,

they may reduce their trauma symptoms, but it will likely not have as much of a reduction in depressive symptoms and their sense of the shame," says Clontz, who's led five children through completion of the program. She encourages parents to work

with their child on the same exercises that she conducts in her office. Clontz has seen parents grow through the experience. Give the parent some direction, she says, "and the child will follow."

Huryn agrees. At the end of a session she explains to the parent, "This is what we did; this is the coping mechanism you need to learn." Confidentiality, though, is also critical. "Until we get to the final session, they may not have talked with their parent about what they're telling me." She thus must first get permission from the child to talk with the parents about what's been discussed.

"A lot of parents come to us feeling like failures, like they missed the signs or somehow are responsible for their child's trauma or suffering," says Ashley Fiore of Morganton. Fiore received funding from The Duke Endowment to develop the Southmountain Center of Excellence in Evidence-Based Treatment in Morganton, and she has helped spread TF-CBT to five counties in western North Carolina. It's important, Fiore says, to give parents the skills to help their child heal, to be a catalyst in their child's return to a healthy life. "I love the parallel process that happens between the therapist and the caregiver," she says. "We're using the same skills with the parent that we want them to use with their children, and this is what changes behavior."

"We're making parents and children experts on trauma," she continues, "which means giving parents and children the courage to face the trauma—to remember the experience but be freed from the emotional pain associated with it so they can label what happened to them as unacceptable and move on with their lives."

Ashley and Scott Akin wondered if they should have known that something

Guiding the Guides

In a conference room in Asheville, two Duke physicians lead a group of fifty or so social workers and psychologists in a frank discussion of how parents respond to their children's trauma. They take turns role-playing, responding to anxious comments

training in TF-CBT, a new model of therapy for children who suffer traumatic experiences. Duke is helping spread the clinical use of TF-CBT through the North Carolina Child Treatment Program.

To participate in the training, clinicians must complete an online course, and their agencies must demonstrate an organizational commitment to put the treatment into practice. The lessons cover more than just effective therapy; they include sessions on overcoming organizational obstacles—such as legal issues,

Amaya-Jackson, codirector of the program. The whole process takes eight months, including follow-up phone consultations and check-in meetings with senior leaders.

Amaya-Jackson says the success of the program, launched in 2006, has far exceeded expectations. She was told by health-care providers that it would be hard to get buy-in from local agencies, but, "we're not finding any resistance. In fact, we're turning [clinicians] away" for lack of sufficient resources to train them.

Amaya-Jackson says the first round of training—focused on a twenty-eight-county region in northeastern North Carolina, the poorest area of the state—had a 200-person waiting list. The program has now trained more than 300 clinicians. Primary funding has come from The Duke Endowment, the Kate B. Reynolds Charitable Trust, and the state.

—Taylor Sisk



Courtesy: Social worker Fiona Huryn working with Fiona Gordon

such as, "My child's innocence has been lost," and, "How could I have let this happen?"

The group is the first cohort of clinicians in western North Carolina to go through

Medicaid billing, and language barriers—that can make or break the program.

"We need to train them on both clinical content and on the implementational side," says Duke professor Lisa



Family unity: Fiona with her parents and younger brother, Jobin



Dearly departed: Fiona in her bedroom with a photo of her brother, Malachi, on the ledge above

was wrong in Savannah's life. "She had a lot of anger issues and a lot of insecurities and fear," Ashley says. Savannah had trouble sleeping, often waking with nightmares. She was afraid to walk alone down the hall to the bathroom. Being first-time parents, "we didn't know if that just might be a stage."

"When she started talking," Ashley says, "it seemed she was glad to get it out."

"It was little bits and pieces every time," Scott says, "just chipping away, chipping away."

"It's definitely working for her, for whatever reason," he says of Savannah's sessions with Clontz. "Her demeanor, her behavior, her fears, her anger—everything is just significantly better."

Savannah still has some trouble sleeping, still has days in which she's scared and upset; just a couple of weeks ago she was going through a "weird stage," her mother says. But her breathing exercises have helped. She's now in kindergarten. And the Akins now have a dog, Savannah having overcome what was once a deep fear of them.

This past Christmas, Fiona Gardner was

both a gray mouse and a white rabbit in the *Nutcracker*. A year or so after Malachi drowned, she asked to take swimming lessons. She was afraid that if she couldn't swim, she too would drown, and her mom and dad would be left with no kids. "That was her protection of us," Deb Gardner says. She now has a younger brother, Jobin.

Fourteen ("and a half," she adds) now, and in the eighth grade, Crystal Collins dreams of attending Johnson & Wales University in Charlotte and becoming a chef. She's living with her great aunt, who's been her rock, committed to Crystal's treatment. She's playing clarinet in the school band.

For a while, after she'd been removed from her father's house, Crystal imagined that the mom she'd never met would soon come for her. Huryn explained to her that families come in a number of forms, and that in many ways she's a lucky young woman. Her life is defined by many things; each day she rewrites her story.

"Terrible things can happen to kids, and it doesn't have to be who they are, or it can give them strengths," Dana Hagele says. "What we call that in our model is 'normalizing' these experiences. It doesn't mean it was good to be sexually abused.

But lots of people are sexually abused, and it's not shameful any more than asthma or a car crash or anything else is. It's just, 'I was sexually abused.' That's how we approach it." A trauma narrative is an encapsulation of a child's experience, "and it's just a good way to learn.... A trauma narrative can get to the heart of it."

In her narrative, Crystal wrote about the decision to speak up: "So I told a counselor—I was tired of it! Then the counselor took me to his office. I forgot what he said, and he called Social Services. I was feeling happy because my father would no longer rape me."

"I didn't know if it was wrong, and I didn't know if he did," she says today of her confusion then. "I thought, 'What did I do?' I thought it was my fault. I was nervous." She's now learned: "You can't be afraid to tell."

"I'm writing a book now, like Maya Angelou," Crystal says. "I read *I Know Why the Caged Bird Sings*. That inspired me."

Her journal entry closes: "I was happy that I told. I was relieved. And you, too, can tell other people." ■

Sisk is a North Carolina-based writer and editor.

CG Makingthe

In the late 1980s, **Alisa Lepselter '85** was just another New Yorker in love with Woody Allen's films. She never imagined she would one day work alongside the famed director. Fourteen films later, she can't imagine doing anything else.

By Bridget Booher

Photography by Frank Fournier

In a low-lit mixing room in New York's Sound One studios, Alisa Lepselter and two audio engineers are tinkering with the sound levels of a scene from Woody Allen's new film, *To Rome With Love*. Set in a bustling café, the scene includes the clatter of dishes and silverware, scraping chairs as diners are seated, and the steady hum of multilingual conversations. Over the course of the next half hour, the three of them will watch the same stretch of film—about forty-five seconds long—as they tweak the levels of background noise and amplify or moderate the actors' lines of dialogue.

It's January, five months before *To Rome With Love* opens in the U.S. Lepselter and Allen have finished editing the film, tightening a two-and-a-half-hour rough cut to a final length of just under two hours. Now, she's moved on to additional postproduction work, including sound editing and mixing, color correcting, video mastering, and overseeing foreign translations.

"I have responsibilities a lot of editors don't have because Woody doesn't work within a traditional studio system," says Lepselter, as the engineers rewind the scene again. "We have a very small crew, so there's very little turnover; we're like a mini studio."

Ever since she was a girl growing up in New Jersey, Lepselter has loved movies. She and her mother used to trek into the city to see a Cary Grant double feature at the now-defunct Regency on the Upper West Side, or *Gone With the Wind* at Radio City Music Hall. Years later, after she'd graduated from Duke and was

That's a wrap: Lepselter at New York's Sound One studios



trying to figure out what to do with her life, movies provided a welcome diversion. She especially loved queuing up with other New Yorkers to take in the latest Woody Allen movie.

"It was a cultural event," she recalls. "You would wait in a line that stretched around the block."

Yet even as she bought tickets to *Hannah and Her Sisters* and *Radio Days* in the late 1980s and early '90s, Lepselter had no inkling that her lifelong leisure pursuit could become a vocation. And she certainly couldn't have guessed that she would one day become Allen's trusted film editor, working side-by-side with him on fourteen films and counting.

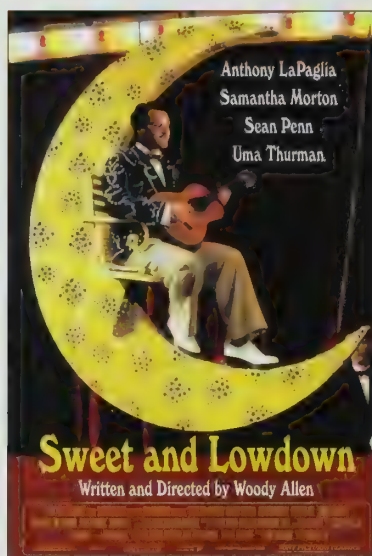
Her aunt steered her to Sound One. Located in the historic Brill Building on Broadway, Sound One has been a hub of postproduction film activity for decades.

"I brought my résumé and just started knocking on doors," she says. "It was teeming with activity, and people were often looking for an extra set of hands. This was before digital editing, when you had to have people managing all that celluloid. You had room after room of people filing film trims."

One of the doors she knocked on was answered by editor Craig McKay, who was working with director Jonathan Demme on *Something Wild*. McKay offered her an unpaid internship as an

Lepselter's 5

Sweet and Lowdown: Lepselter's first film with Allen. "I was given the script to read, and I couldn't believe how much I loved it. I had been reading scripts for many years, but I had never read a Woody Allen script, and I just thought it was so brilliant and well-crafted and funny. I could immediately envision the period piece that it was going to be and how beautiful it was going to look."



Cassandra's Dream: "People expect Woody to make movies about the upper crust, and this was a side of London that I didn't expect to see from his point of view. The drama and acting were wonderful, and I was disappointed that it wasn't better received."



after completing a major in art history at Duke, Lepselter moved back home and lived with her parents while saving up enough money to live in New York. She landed jobs as a photo researcher at the Bettmann Archive and as an auction-house assistant at Sotheby's but longed for meaningful, soul-sustaining work. "Film had never seemed academic enough to me when I was a student," she says. "Duke didn't have a film department back then, and I didn't know anyone who went on to film school. But as I was trying to figure out what it was that I loved, I started to think more seriously about film as a career."

Her aunt, who had worked as an accountant for a film production company, encouraged Lepselter to consider editing. Coincidentally, her then-boyfriend (now husband), Charles Roos '85, bought her a copy of *The Film Editing Room Handbook*. "I didn't know that I wanted to be a film editor," she says. "I just knew that I wanted to learn about the production end of things."

apprentice film editor. The workload was intense, but the perks were priceless. "I was so eager and had no pretensions," she recalls. "I hadn't gone to film school, and I didn't see myself as someone who should walk in the door and be given a job. I was happy to learn. People are so grateful for that attitude. I did whatever was asked of me, and nothing was beneath me. And because I had a good attitude about the grunt work I was asked to do, I was also welcomed into the cutting room to listen to the director and editor talk about the film. The actual work I was doing was very low-level. But that's where I learned about editing."

After the film wrapped, Lepselter was offered other similar apprenticeships, and Sound One soon became a second home. "I fell in love with editing," she says. "When I realized it was something I could pursue, I became very devoted to it. And I learned a lot about how to work with directors by watching all these different personalities. Some editors could explain themselves in a way that ultimately got them what they wanted. They were diplomatic. And some people weren't cut out to be editors because they were too

confrontational. You have to have the kind of personality that can work with the director to achieve the director's vision; you can't be fighting for your own vision. And that's something I'm okay with because I thought editing itself was so much fun."

Lepselter also brought her liberal-arts education to bear on her work. Her intellectual curiosity, attention to detail, and ability to collaborate with a range of artistic temperaments eventually brought her to the attention of veteran editor Thelma Schoonmaker, who has worked with Martin Scorsese for more than forty years. Schoonmaker was looking for an assistant editor to work with her on Scorsese's adaptation of *The Age of Innocence*, and

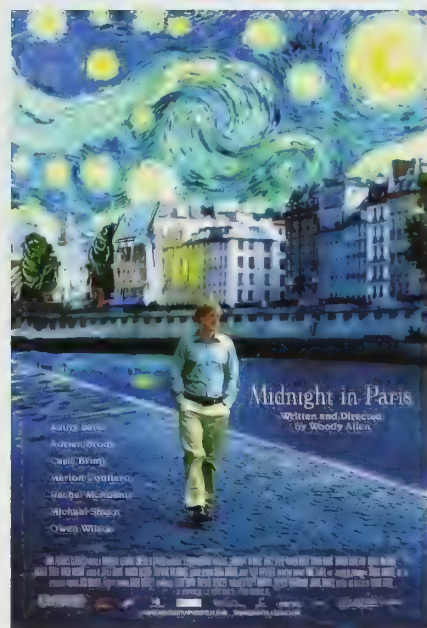
"Working on big-budget movies is all-consuming for the year that you're working on it," she says. "You don't have any time for yourself. You're working long, long hours, and you're expected to be on call that entire time. You can't even make plans for Saturday night, let alone a vacation. People used to ask me what I would do when I had children, and I always told them I would figure that out when the time came."

As it turned out, Lepselter loved being a stay-at-home mom. When her son was nine months old, she was at a new-mothers' support group when her phone rang. It was her agent, telling her that Woody Allen was looking for a new film editor and that Lep-



Match Point: "Creating the tension that built throughout that movie was very satisfying from an editorial point of view. And the opera music that we chose"—arias by Italian tenor Enrico Caruso and the climactic scene featuring Giuseppe Verdi's *Otello*—"added to the dramatic tension."

Vicky Cristina Barcelona: "So many things came together in the editing process that I hadn't been able to anticipate just reading the script. The city of Barcelona became such a central character. And the energy among the actors was so palpable onscreen; it wasn't something that was immediate to me on the written page."



Midnight in Paris: "I loved *Midnight in Paris*. The scenes with Hemingway to me were priceless. I would laugh during dailies to the point where I had to take a break."

several people recommended Lepselter. When Schoonmaker called, Lepselter proposed that they meet, assuming that Schoonmaker was vetting a number of potential assistants. Instead, Schoonmaker asked when she could start.

"Thelma is a brilliant editor, and when I worked for her and Marty, it was better than going to film school," Lepselter says. Throughout the editing process, Scorsese periodically invited the crew to screenings of movies that he liked—screenings that occasionally included an appearance and talk by a fellow director, such as Elia Kazan. "Working on *The Age of Innocence* was my film school."

In 1996, Lepselter landed her first job as a lead editor when she was hired by director Nicole Holofcener to edit *Walking and Talking*. She hired an agent. By then, she and Roos had married. In 1997, they had their first child, and Lepselter wasn't sure how she was going to balance parenthood with the grueling life of film editing. She took some time off to consider her next move in the film industry.

selter's name had been suggested.

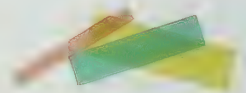
"I laughed because I'd only done one film as an editor and I didn't think I could seriously be in the running," she recalls. "But I thought, gosh, wouldn't it be exciting to meet Woody Allen?"

In the recent PBS *American Masters* series documentary about Allen, his casting agent, Juliet Taylor, talks about the audition process for actors being considered for a part. Meetings between Allen and actors are usually quite brief—a few minutes of small talk at most. Lepselter arrived at Allen's offices expecting to be quickly ushered in and out of a sleek, sophisticated setting befitting one of film's most esteemed directors.

Instead, she walked into the office/editing room that Allen has maintained (but not modernized) for more than thirty years. They sat on a comfortably worn couch and ended up talking for about ten minutes, mostly about the technical aspect of editing. Lepselter had made the transition from celluloid to digital, but



“Everyone thinks that they know Woody, and he’s constantly getting requests from people who want something from him. I get that people are curious about him, but I don’t want to be a conduit for that. **I’m very protective of him in a way that comes before my ego.**”



Allen hadn’t. “I’d been told that he would never switch, so I didn’t push it too hard,” she recalls. “I told him that it was just a tool, but a great tool, and he would probably like it.”

Lepselter knew that the encounter was designed to gauge Allen’s comfort level with her. “That’s how he hires people. Is it someone he feels a good vibe about? Is it someone he’d want to sit next to while editing his films, someone he’d be comfortable being with in close quarters?”

Lepselter thought nothing more about it. A few weeks later, her agent called to tell her that Allen wanted to hire her. “I had such limited experience as an editor that it came as a surprise. There were people who seemed much more qualified than me, but that’s not what he was going by. He was going by personality. He liked me, and that was it.”

Through his assistant, Allen says that he chose Lepselter because “she was head-and-shoulders above the other editors I interviewed. She showed real intelligence and a great understanding and appreciation of film, and that was important to me.”

Upon hearing the news that she was offered the job, Lepselter felt strong, conflicting emotions—exhilaration about the opportunity to work with a director she had revered her whole life, but also apprehension about what it meant for her family. But the moment passed quickly. “How could I say no to Woody Allen?” she says.

As it turned out, Allen’s prolific output meant that Lepselter would enjoy a more predictable and efficient schedule than she had on big-budget projects. “Since he makes a film a year, Woody doesn’t have his whole career resting on a particular film. There are other directors who have so much riding on the movie they’re working on

that they never want to go home, whereas Woody will look at his watch at 6 o'clock and say, 'That's enough for today.' "

That sense of easy familiarity took time, though. Lepselter was "incredibly nervous, for years. It took me awhile to become comfortable with him not only because of the respect I have for him as one of our most creative filmmakers, but also because he is very businesslike in the editing room."

The pair's first collaboration together was *Sweet and Lowdown* in 1999, followed by *Small Time Crooks*. "No one knew what was going to happen after the first one, but after *Small Time Crooks*, it was just assumed I wasn't going anywhere," she says. "It was never a conversation we had."

A pivotal moment in their relationship happened during the editing of *Curse of the Jade Scorpion*, their third film together. "Woody wasn't happy with some of what he was seeing in the dailies," she recalls. "He took me aside and asked me my opinion in a way that revealed his reliance on me. That one conversation did a lot for my confidence."

There is a predictable rhythm to their work. Lepselter usually receives a new script in the early months of a new year. Casting and shooting take place over the spring and summer, and editing and postproduction transpire in the fall and into winter. Dailies are sent to Lepselter after each day of shooting. She begins to envision how the film will look and makes some preliminary notes about the tone and pacing of the movie. A comedy will have a different rhythm than a drama. But the editing itself doesn't begin until shooting is wrapped.

Unlike many directors, Allen likes to edit in sequence, from the first scene of the movie through the closing credits. The first rough assembly takes about three weeks—"at that point it is very raw," she says—and then they begin the more laborious process of deciding what scenes and takes should stay and which should go. They also begin considering what music the narrative suggests. During the time she has worked with him, Allen has only commissioned original music for one film; the others have all featured soundtracks that are careful compilations of songs that Allen and Lepselter select together.

"Woody is an accomplished musician and has particular ideas about the soundtrack of his films," she says. "He has such a huge selection of jazz music that we used to just see what he had in his collection. But not every movie wants a jazz score." With the availability of digital music, and Allen's venture into international settings for his films, the musical landscape has expanded. One scene in *To Rome With Love*, for example, sent Lepselter in search of Italian pop songs from the 1970s.

Fourteen years after she was hired, Lepselter is a trusted member of Allen's inner circle, and the two of them have developed a deep level of mutual respect. As part of that circle, Lepselter says she feels a strong obligation to honor Allen's need for privacy. When pressed for details about a specific conversation or collaborative moment, Lepselter makes it clear that she is not comfortable talking about her boss. "Everyone thinks that they know Woody, and he's constantly getting requests from people who want something from him. I get that people are curious about him, but I don't want to be a conduit for that. I'm very protective of him in a way that comes before my ego."

She will say that despite the strictly business nature of their relationship—they've never socialized outside of work, for example—their sensibilities are well-matched. "When we were working together on *To Rome With Love*, there was a scene that had me doubled over with laughter. I had to stop and catch my breath. Woody just waited for me to pull myself together and

said he hoped other people would have a similar reaction to the movie. He does occasionally make a sublimely funny remark, and I get the feeling that he can't help but be funny even when he is not at all trying to be."

She concedes that they don't always agree about the way a particular scene should be cut, and she will push him to a certain degree, "but I can sense when enough is enough. And he's eager to have that back-and-forth. He sometimes has less patience than I do with the actual editing process, which I probably find more enjoyable than he does."

Allen says he appreciates that Lepselter understands what he's after, citing her keen sensitivity to the material. "She has worked closely with me for years, wherein we've tackled many difficult problems that a lesser editor would have been lost trying to cope with. She is everything I could have wanted in an editor to work on my films."

Allen has been nominated eighteen times for an Academy Award and has won three, most recently a screenwriting Oscar for *Midnight in Paris*. Lepselter has been nominated by the American Cinema Editors Guild for her editing work on *Vicky Cristina Barcelona* and *Midnight in Paris*, and while she is flattered by the recognition from her peers, she says that, like her boss, awards don't motivate her.

Lepselter says she has no immediate plans to look for work with other directors. "Woody might be the least neurotic person I have worked with in this business," she says. "Maybe that tells you something about this business. He is low maintenance and approachable, the opposite of a diva."

Should Allen decide to stop making movies, she says she could imagine working with up-and-coming writer-directors, as she did with Holofcener on *Walking and Talking*. She also keeps an eye on new talent such as Lena Dunham, who gained critical acclaim for her quirky, independent film, *Tiny Furniture*, and whose new show, *Girls*, airs on HBO. Lepselter says she could also envision segueing in to the production side of films.

Regardless of how long her partnership with Allen lasts, Lepselter says she can't imagine a more ideal professional situation than the one she's in. She has summers free to spend with her family. Each year brings a new project that she helps shepherd from start to finish. And she's become an invaluable colleague to an artist who is both wildly creative and reassuringly even-keeled.

"I know it might look like I have a charmed life right now," she says, "but I worked hard for so many years, and it worked out for me in the end. I saw a lot of people who weren't cut out for it. I remember learning at a certain point that I didn't have a reputation for being very nice, and I was shocked. I realized that as I was walking around the halls of this building, I had an intense look on my face because I was always very hard-working, and I wasn't stopping to chat at the water coolers. And the editors that I worked for appreciated that."

"So it may have seemed lucky that I got the job with Woody, but I had a lot of years before that where I pounded the pavement. I always stress that to young people—the right attitude will get you far." ■

Allen says
Lepselter
"is **everything**
I could have
wanted in
an editor to
work on my
films."

Sports

London Isn't Calling

Becca Ward is having too much fun to regret passing up the Olympics. | By Michael Penn

Deep in the digital detritus of Becca Ward's computer are some peculiar mementos of her days as a teenage fencing phenom. Sometime around age thirteen, when she began traveling the globe to compete in international matches, she started taking pictures of pigeons. It began as a joke—because how is a pigeon in Poland any different from one in Portland, really?—but the birds soon became a metaphor for her itinerant life.

"You would fly into somewhere, go to a competition venue, fence for two days, and then fly home," says Ward, whose other souvenirs include a gold medal from the 2006 World Fencing Championships and two bronze medals from the 2008 Olympics in Beijing. "It's not really that exotic. It's just pigeons."

Now twenty-two and about to graduate with a major in public policy, Ward doesn't think much about jet-setting. Although she would be a favorite to win a medal at this summer's Olympic Games in London, she decided not to try out for the U.S. team, preferring to enjoy the sunset of her Duke career. Training with the national team would have required her to miss much, if not all, of her final year at Duke, she says. "And I just couldn't imagine leaving my friends, my class...leaving everything behind to chase a life I've already had."

The life she chose instead has had no shortage of athletic glory. In her four years wielding a saber for the Duke fencing team, Ward won NCAA championships in 2009, 2011, and 2012, becoming the first Duke student-athlete ever to win three in-

dividual national titles. In a sport often referred to as "physical chess," she dominated with a rare combination of lightning reflexes and mental agility. It didn't hurt that she has the fiery heart of a born competitor, one who often let loose a spontaneous shout of joy after winning a key point.

But it's the quieter moments that underscore Ward's devotion to Duke. She has served on the First-Year Advisory Council

"Honestly, I didn't want to be a fencer, to just be a fencer. I came to Duke to not be defined by it."

and the Undergraduate Conduct Board and writes for *Rival*, a magazine produced jointly by Duke and the University of North Carolina at Chapel Hill. In March, she did her first stint tenting in K-ville. Still on her "Duke bucket list" are a trip to the Duke Lemur Center and tea at the Washington Duke Inn. "Duke is an amazing place, and

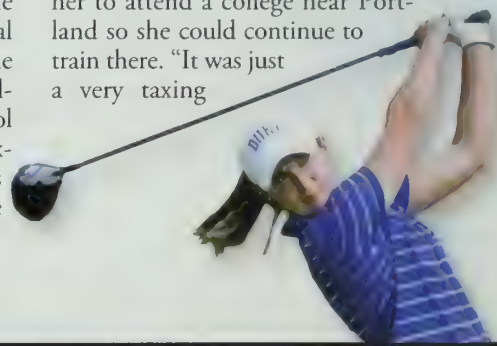
there are so many things I want to be involved in. I just wanted to make the most of my time here and not sit idly," she says.

In that respect, Ward got what she hoped for when she chose Duke: "a real college experience." As a teenager, she trained with the elite Oregon Fencing Alliance in Portland, completing high school through correspondence courses. By sixteen, she was the top-ranked women's saber fencer in the world, but she says she often felt isolated and confined.

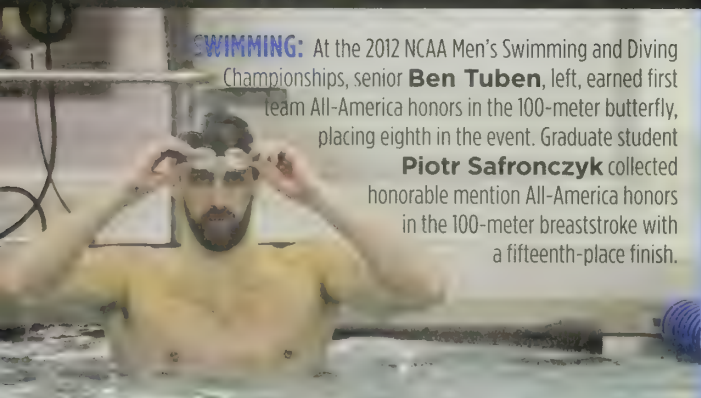
"Honestly, I didn't want to be a fencer, to just be a fencer," she says. "I came to Duke to not be defined by it."

That was not so easy at first. Ward arrived for Duke freshman orientation less than a week after winning the second of her medals at the Beijing Olympics. Bob Costas had interviewed her in prime time after the U.S. swept the saber fencing medals, and in Durham, she found it difficult to escape her fame. How many freshmen have a sign posted over the door of the Wilson Recreation Center, welcoming them to campus? When President Richard H. Brodhead mentioned her by name in his opening convocation speech, "I don't think my face has ever been redder," Ward says. Though she always introduced herself to classmates as "Becca from Portland," something inevitably would spark recognition and out her as "the fencer girl."

Ward would smile and answer patiently her classmates' questions about the Olympics: Was it amazing? Was it glamorous? But the truth was her Olympic experience was neither amazing nor glamorous. She wasn't permitted to participate in opening ceremonies because she was scheduled to compete the next day. There were tensions with her coach, who had wanted her to attend a college near Portland so she could continue to train there. "It was just a very taxing



DUKETICKER



SWIMMING: At the 2012 NCAA Men's Swimming and Diving Championships, senior **Ben Tuben**, left, earned first team All-America honors in the 100-meter butterfly, placing eighth in the event. Graduate student **Piotr Saffronczyk** collected honorable mention All-America honors in the 100-meter breaststroke with a fifteenth-place finish.

TRACK AND FIELD: Junior **Curtis Beach** won the men's heptathlon at the 2012 NCAA Indoor Track and Field Championships, breaking his own world record for 1,000 meters in the event with a time of 2:23.63. He finished the event with 6,138 total points, which is the third-highest total in collegiate heptathlons. He was named National Field Athlete of the Year for the indoor season.

WOMEN'S GOLF: At the ACC Championships, junior **Lindy Duncan** shot a three-under-par 210 to win the individual championship by six strokes, making her the eleventh Duke golfer to win an ACC individual title. Duncan's score helped the Blue Devils win their first ACC team championship since 2008 and marked her fourth tournament title of the season.



Ward: After three NCAA titles, she's ready to move on.

experience," she says.

At Duke, Ward has turned that international experience into an asset for her teammates. "Becca is a wonderful leader," fencing coach Alex Beguinet says. "She has learned that a good leader won't ask others to do something she wouldn't do." This past season, with Ward as team captain, the women's squad won a team-record twenty-two matches and placed eleventh at the NCAA championships.

But Ward's senior year also brought tantalizing reminders of her international fame. In January, competing in her first U.S. national event since 2010, she sliced through a field of the country's best fencers—including Olympic contender Ibtihaq Muhammad '07—erasing any doubts that she is still among the world's elite.

So who walks away from that, from knowing you can be the best in the world? From a chance for Olympic gold?

Someone who knows the cost of gold.

"Objectively, I know I will never be as good at something as I am at fencing," she says. "But I can do other good things. I can have other accomplishments, and I can be happy knowing I had that experience. I had that life, and I chose to do something better. I'll just direct that competitive spirit elsewhere."

She hopes elsewhere will be an environmental policy job in Washington, ideally with a small fencing club nearby. But don't expect to see her jetting off to tournaments anytime soon. There may be lots of pigeons in London, but Becca Ward doesn't need them anymore. She found her place to roost.

Jon Gardiner



THE SCORE

352

Career-victory total of women's tennis coach **Jamie Ashworth** after his team won a match over eighth-ranked Virginia in March. The win gave Ashworth, in his sixteenth year leading the program, the most career victories ever by an ACC women's tennis coach.



WRESTLING: Freshman **Tanner Hough** overcame the odds to earn a place at the NCAA Championships. Seeded fifth in the 141-pound division at the ACC Championships, Hough wrestled his way to a third-place finish, earning an invitation to the national meet. Hough is only the second freshman at Duke to advance to the NCAA Championships.

WOMEN'S BASKETBALL: Freshman center **Elizabeth Williams**, who led the Blue Devils in points, rebounds, and blocked shots during the team's run to the Elite Eight, was named the U.S. Basketball Writers Association's National Freshman of the Year. The USBWA also elected sophomore point guard **Chelsea Gray** to its ten-member All-America team.

Your University ... in Your Mailbox



Duke Magazine brings you everything you love about Duke—fresh ideas, the joy of learning, new connections, a dose of reminiscence, and a whole lot of fun.



Consider a voluntary subscription to *Duke Magazine* to help us keep your Duke connection strong. Go to dukemagazine.duke.edu to subscribe now.

Muse

FILM

Garbage Can-Can

When choreographer Allison Orr approached a group of Austin, Texas, trash collectors about creating a dance performance, she was met with silence and skepticism. A year later, on an abandoned airport runway, two dozen workers and a fleet of trucks—accompanied by a live music combo—presented a spectacle of sound and movement for an audience of more than 2,000 people.

Director Andrew Garrison chronicled the unlikely collaboration in *Trash Dance*, which won the Audience Award at the 2012 Full Frame Film Festival, held in downtown Durham in April. Now in its fifteenth year, the festival is presented by Duke's Center for Documentary Studies and attracts cinephiles from around the world for four days of morning-to-midnight programming. *Special Flight*, a Swiss film directed by Fernand Melgar, won the festival's top jury prize.



Muse

Actors of War

Christopher Sims '95 goes to the imaginary front to document an unseen side of combat.

When we think of war, our mind's eye sees scenes of destruction and suffering. The war-related images captured by photographer Christopher Sims '95 contain no battle scenes or wounded civilians, yet they provide intimate access to combat's countless ancillary activities.

Sims, winner of the 2010 Baum Award for Emerging American Photographers, recently landed a spot on *Oxford American's* list of "The New Superstars of Southern Art." The recognition is for his growing body of work, including a behind-the-scenes look at life in Guantanamo Bay, and for the ongoing series "Theater of War: The Pretend Villages of Iraq and Afghanistan."

Located in the forests of North Carolina and Louisiana, and in the desert near Death Valley in California, the simulated villages are used to train U.S. soldiers preparing for deployment. Military veterans, spouses of active-duty soldiers, and immigrants from Iraq and Afghanistan play specific roles during the training exercises. Sims has had a bit part himself, playing a war photographer on assignment.

"The villages are places of fantastic imagination," says Sims, who teaches photography at the Center for Documentary Studies. "The actors continue playing their roles as police officers, gardeners, and café owners during the long stretches of day between training exercises. Some villagers plant crops that they harvest months later for food for their lunches and dinners.



Others pass their leisure time painting murals on the interior walls to beautify their surroundings, or making arts and crafts to trade with other villagers."

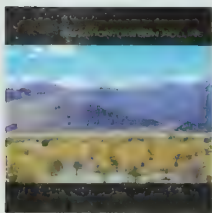
Sims' work has been shown at the Griffin Museum of Photography, the Houston

Village Residence, Fort Polk, Louisiana Center for Photography, the Light Factory, the Southeastern Center for Contemporary Art, and the Halsey Institute of Contemporary Art. His earlier project on Guantanamo Bay was featured in *The Washington Post* and on the BBC World Service.

MUSIC

Fusion/avant-garde/jazz guitarist **Lawson Rollins** '92 possesses a world-music sensibility and high-speed fingerpick guitar style that has garnered him critical acclaim, *Billboard* hits, and millions of YouTube fans. His new album, *Elevation*, was recorded in Nepal, the

U.S., and Iran, and contains thirteen international, genre-crossing soundscapes. Contributors include Persian-American musician Shahin Shahida, multi-platinum producer Dominic Camardella, avant-garde guitarist Buckethhead, Nepali flute star Ruben Shrestha, tabla master Raju Maharjan, and Grammy-winning violinist Charlie Bisharat.



The X-Teens were among North Carolina's leading New Wave/pop bands in the 1980s. Despite giving up the rock 'n' roll lifestyle when the band broke up in 1987, keyboardist and songwriter **Todd Jones** '80 never stopped

playing music. On his latest CD, *Mister Sensitive*, Jones' trademark smart-aleck pop/rock compositions range from the sublime ("How I Want to Die") to the ridiculous ("My Pet Tapeworm.") (Jones is married to *Duke Magazine's* Bridget Booher.)



FILM

SCREEN TIME: Actor Segun Akande '07

Segun Akande got his first standing ovation for a dramatic monologue he delivered at summer camp. But as a varsity running back at Duke, he didn't have much opportunity to pursue his interest in acting. Now, he's making up

for lost time. He's racked up credits in commercials, film, theater, and music videos.

Akande's next big project is the film *One Night in Brooklyn*, now in pre-production. It focuses on

a tight-knit group of recent college graduates living in Brooklyn. Akande plays Capital H, an ambitious rapper whose drive to succeed threatens to eclipse his personal relationships. He's also been shortlisted for a lead role in a major Hollywood film and a CBS prime time show.



Courtesy Segun Akande



Setting the scene: Producer/director Lee, left, and director/editor Shasta Grenier in Paradise Valley

STARTING OVER: Filmmaker Sabrina Lee '91

Retired Marine Colonel Eric Hastings came back from Vietnam haunted by the experience. He found solace and healing through fly-fishing in the trout streams of Montana. *Not Yet Begun to Fight*, the latest documentary by producer/director Sabrina Lee, follows Hastings as he reaches out to a new generation of young men returning from wars in Iraq and Afghanistan.

"We've taken a subject that's very politically charged—the nature of war—and presented something that's not political, controversial, or polarizing," says Lee. "We're telling an intimate story about the human costs of war—post-traumatic stress disorder, the loss of identity and masculinity, having to start over, and the physical challenges of combat-related injuries."

The film debuted at the Atlanta Film Festival in March, won the Audience Award at the Florida Film Festival, and is making the rounds of the independent film festival circuit. Lee's previous documentary, *Where You From*, a feature-length film about rural rap, was acquired by IndiePix films in 2009.

HOOPS HISTORY: Filmmakers Amy Unell '03 and Madeleine Sackler '05

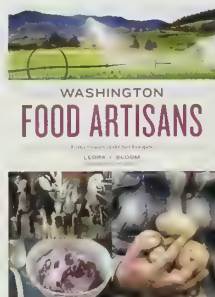
In this day of one-and-done athletes and win-at-any-cost athletics programs (we're looking at you, John Calipari), the documentary *Duke 91&92: Back to Back* is a bittersweet reminder of what the sport of college basketball has lost. It seems unimaginable that a basketball team will

ever again have players who stick around for four years and coalesce into a squad with a deep history of shared experiences. The film, produced and directed by Amy Unell and Madeleine Sackler, follows the Blue Devil teams that overcame skeptics, setbacks, and internal squabbles on the

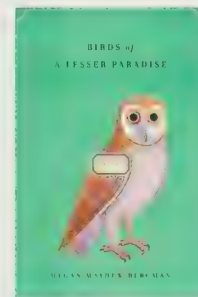
way to winning two national championships. The filmmakers intersperse historical footage—The Shot!—with present-day interviews with Grant Hill '94, Christian Laettner '92, Bobby Hurley '93, and Coach K, among others.

BOOKS

Washington Food Artisans (Sasquatch Books) by Leora Bloom '89. Bloom has worked in restaurants in Washington, D.C., and San Francisco and runs her own bakery in Bellevue, Washington. Her culinary love letter to her home state includes profiles of seventeen food artisans who are producing wine, cheese, lavender, honey, meat, and fruit. Guaranteed to whet your appetite, the book also includes gorgeous photography and fifty recipes, inspired by the farmers' products, by some of Washington's leading chefs.



Birds of Lesser Paradise (Scribner) by Megan Mayhew Bergman A.M. '07. Bergman lives on a farm in Vermont with her veterinarian husband, two young daughters, and a menagerie of animals. In her debut book of short stories—some of which have appeared previously in *Best American Short Stories* and *New Stories from the South*—Bergman draws from personal experience to craft poignant tales of familial love and loss, and the untamed beauty of the natural world. A former fiction scholar at Breadloaf, she teaches literature at Bennington College.





Beth Doyle

E. Rhodes and Leona B. Carpenter
Senior Conservator
Head, Conservation Services
Verne and Tanya Roberts
Conservation Lab

CRAZY SMART

Every day, another piece of history threatens to disappear. Book bindings crack. Newspapers crumble. The faces in old photographs fade away.

Preserving the holdings of a world-class research library is important work, but it comes with certain challenges.

Take this little Blue Devil. He was someone's Duke souvenir, purchased in 1938 and recently donated to the University Archives. When he arrived in the conservation lab, he needed special attention.

That's why our conservators are trained and equipped to handle everything from medieval manuscripts to comic books and medical instruments. And yes, even felt-and-straw dolls.

History comes in many forms, and we aim to keep them all. That's not just smart. That's crazy smart.

Do something historic. Support Duke University Libraries.

library.duke.edu/crazysmart

DUKE UNIVERSITY
LIBRARIES

CONTENTS

DAA CONNECTIONS 58

LIFE'S BROAD SEA 60

CLASSNOTES 61

CLASSIFIEDS 77



Duke in Cuba: Scenes from the Duke Alumni Association's inaugural travel program trip to the Caribbean republic

Forever Duke

DUKE ALUMNI ASSOCIATION

"I'd been back from the Peace Corps for about four months, and I stood on the street outside Crate & Barrel, and I just cried, because I didn't really need eight highball glasses and I knew it."

Jason Carter '97, on completing his wedding-gift registry shortly after serving in the Peace Corps, during a Duke Idea event with his grandfather, former President Jimmy Carter, and President Richard H. Brodhead in Atlanta

www.dukealumni.com



DAAConnections

ENGAGE. CONNECT. CELEBRATE.

iVamos Duke!

DUHLAA aims to increase support for Duke's Hispanic/Latino community.

Roberto Olivares III '88 has a long-range perspective on the experiences of Hispanic/Latino students at Duke. While he enjoyed his undergraduate experiences, there weren't many other Hispanic/Latino students that he could identify with.

His son, Roberto Olivares IV '12, belongs to the 7 percent of Hispanic/Latino students that comprise the undergraduate student body. The younger Olivares and his peers have an array of organizations geared specifically to them, including Sabrosura, a Latin dance group; Mi Gente, Duke's Latino student association; and La Unidad Latina, Lambda Upsilon Lambda, Duke's first Hispanic/Latino fraternity. The Latino/a Studies program, established in 1997, began offering undergraduate courses toward a certificate in the spring of 2009.

"Things are getting better, but Duke still has a ways to go to be competitive when it comes to recruiting and supporting the interests of Hispanic/Latino students and faculty," says the older Olivares. For example, at MIT, Harvard, Yale, Stanford, Columbia, and the University of Pennsylvania, Hispanic/Latino students make up between 11 and 12 percent of the Class of 2015.

Through the Duke Alumni Association (DAA), Olivares and other Hispanic/Latino alumni are working through DUHLAA, the Duke University Hispanic/Latino

Alumni Association, to foster greater support for and expand Duke's Hispanic/Latino community. "We hope that DUHLAA will serve as a central hub for graduate and undergraduate students, faculty, and alumni to gain visibility and have a voice," he says. More than 3,000 alumni identify as Hispanic/Latino.

DUHLAA evolved from efforts begun in 2004 to create an affinity group for Hispanic/Latino alumni. That year, a \$100,000 scholarship endowment was created for undergraduate students of Latino/a heritage, and part of DUHLAA's emphasis in the

Last summer DUHLAA crafted and approved a constitution and elected a board of officers. In March this year, DUHLAA held its inaugural national conference in Miami. Vice provost for undergraduate education Steve Nowicki shared perspectives on how Duke's efforts to serve its Hispanic/Latino community compare to that of peer institutions. And associate professor of literature Antonio Viego discussed the Latino/a Studies program and ideas for broadening the curriculum. Michael Bennett '77 and Reggie Lyon '84, members of DUBAC (Duke University Black Alumni Council), shared their experiences building and expanding that affinity group.

DUHLAA communications chair Roberta Oyakawa B.S.E. '86 says the group's efforts dovetail with the larger missions of the university and the DAA. "We want to engage with alumni in an effort to promote the best interests of the university, while attending to the specific needs of the Hispanic and Latino community. Our goals are to track statistics and metrics about the Hispanic/Latino community, support and expand that community, and sponsor outreach events such as our national conference."



Compadres: DUHLAA chair-elect Nelson Bellido '89 presents a DUHLAA shirt to Shane Battier '01.

coming years is to continue adding to the endowment. (The fund currently has a market value of \$350,000.) DUHLAA members also come to campus during Latino Student Recruitment Weekend to encourage accepted students to matriculate.

Interested in joining or learning more? DUHLAA has its own affinity page on the Alumni Communities section of the DAA website—duhlaa.org—and has a Facebook group page.

Alumnae Outreach

DAA programs geared to engaging women.

What was lost when the Woman's College merged with Trinity in 1972? Why are women's athletic opportunities still not equal to those for men, despite the passage of Title IX? How do state battles over reproductive rights and health care affect women disproportionately? For the more than 300 attendees at "Winning Women: Advocates, Educators and Athletes" in February, exploring the answers to these and other questions resulted in intense discussions, fond recollections of shared experiences, and inquiries about what role alumnae

play in shaping Duke today.

Organized by the Duke Alumni Association and Duke Athletics, the program is part of the DAA's larger outreach efforts to engage alumnae. At the local level, Women's Forums throughout the country provide ongoing networking events around topics such as women entrepreneurs, education and leadership, and sustainable food. For information about Women's Forums, including how to start one in your community, visit www.dukewomensweekend.com.

NEXTSTEPS

CONNECT Do you have a rising high-school sophomore, junior, or senior in your family? Make plans to attend the Jump-Start College Admissions Process at Duke on June 15. Designed exclusively for alumni families, the day-long conference covers how to select the right college, crafting a great admissions essay, understanding the significance of standardized tests and other credentials colleges consider, and how to estimate the cost of—and pay for—higher education. **MORE:** dukealumni.com

...

CELEBRATE Although they're likely to have already connected electronically, members of the Class of 2016 can meet some of their fellow freshmen face-to-face during this summer's send-off parties. Hosted at homes in local communities from Savannah to Seoul, the informal get-togethers give students a chance to meet—and their parents a chance to reassure each other as nests begin to empty.

MORE: dukealumni.com

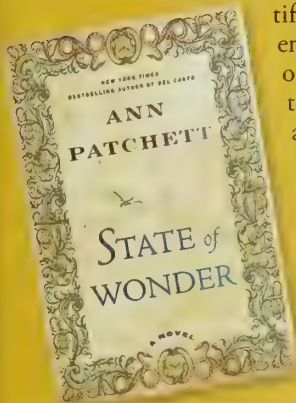
...

FOREVER LEARNING More than 400 Duke students are embarking on dozens of DukeEngage summer projects in domestic and international settings. New international locations include programs in Southeast Asia and the Middle East.

READ THEIR BLOGS FROM THE FIELD:
dukeengage.duke.edu/our-blogs

...

WHAT WE'RE READING *State of Wonder* by Ann Patchett, the summer reading book for incoming students in the Class of 2016. Part scientific thriller, part engaging personal odyssey, the novel traces the steps of a forty-two-year-old pharmacologist whose work takes her to a Brazilian jungle.



How are you ForeverDuke?

Jeff Staubach '97 could barely walk when he arrived at K Academy last year to participate in the fantasy basketball camp. Days earlier, he had completed a twenty-hour, fifty-mile walk through Carry the Load, a nationwide event to raise money for veterans and their families. Participants carry mementos in honor of servicemen and women who have given their lives while in the military.

"I had blisters and shin splints and was limping around," he says. "By the end of camp, everyone knew my story, so when it came time to think about who I would walk in honor of this year, I immediately thought of the Duke community."

When Staubach walks in this year's Carry the Load event in late May, he will wear a T-shirt printed with the names of all Duke alumni killed in active duty—nearly 300—from World War II through the Iraq and Afghanistan wars. "I'm calling them the Bravest Blue Devils, because they gave the ultimate to their country," says Staubach, the son of Hall of Fame quarterback and Navy veteran Roger Staubach. "The goal of Carry the Load is to go farther and carry more than you think you can. So when I begin to get exhausted in the twelfth or fourteenth hour of the event, I'll think about the sacrifices they made, and it will inspire me to keep pushing through the pain."

"I respect and admire what [Duke] stands for," says Staubach,

who played varsity baseball for the Blue Devils. "From its classrooms to the playing field, Duke represents excellence. But I am also Forever Duke because I refuse to wear that lighter shade of blue. I even had a hard time seeing my infant son wearing baby blue."



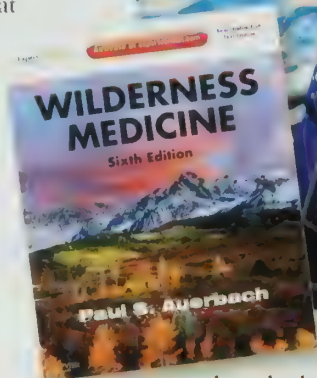
Courtesy Jeff Staubach

Life's Broad Sea

ALUMNI IN THE SPOTLIGHT

Paul Auerbach '73, M.D. '77 takes the scouting motto of "Be Prepared" to a whole new level. His new book, *Wilderness Medicine, Sixth Edition*, weighing in at ten pounds, includes information about snake bites, lightning strikes, bear attacks, poisonous mushrooms, seafood pathogens, frostbite, sunburn, heart stroke, volcano hazards, dehydration, bone fractures, emergency evacuation, vertigo, toxic plants, bacterial infections, high-altitude sickness, tropical diseases, and parasites. (There's a lot more, but you get the idea.)

A professor of surgery at Stanford University and an avid outdoorsman, Auerbach has edited the book since its first edition in 1983. (His med school classmate Edward Geehr M.D. '76 helped edit the first two editions.) His interest in emergency and wilderness medicine dates to a summer externship spent working with the Indian Health Service in Montana between his second and third years of medical school. Since



then, he has pioneered wilderness medicine, a specialty that is useful not only for outdoor enthusiasts but also during humanitarian crises, in the wake of natural disasters, and in austere settings where resources are scarce.

Auerbach has put his expertise into

practice in Haiti as a first responder after the 2010 earthquake and has led wilderness-medicine workshops at the base camp of Mount Everest. He's also involved with efforts to help Nepal create a worldwide burn prevention and treatment program.



Safe adventures: Auerbach on a dive in Mexico



Corin: Romeward bound

Lucy Corin '92 has been awarded a Rome Prize by the American Academy of Arts and Letters. Also known as the "Rome Fellowship in Literature," the award goes to two "young writers of promise" and includes a one-year residency at the American Academy in Rome. Corin, an associate professor at the University of California-

Davis, is the author of the short-story collection *The Entire Predicament* and the novel *Everyday Psychokillers: A History for Girls*. Her stories have appeared in *American Short Fiction*, *Conjunctions*, *Ploughshares*, *Tin House Magazine*, and *New Stories from the South: The Year's Best*.

During her residency, Corin will work on her novel-in-progress about "people who are not mentally ill trying to conceive of and do right by people they love who are," she says. "I am incredibly excited and grateful. It's an amazing feeling to get this kind of support."

At the age of seventy-one, **Hiroshi Hoketsu A.M. '68** is preparing for an unlikely return to the Olympic Games. Hoketsu, an equestrian sport rider, first represented his native Japan at the 1964 Olympics in Tokyo, where he finished 40th in show jumping. He gave up competition to pursue degrees in economics, but returned in 2008 to qualify for the Olympics in Beijing. Competing in dressage, an event where riders execute a series of tests that are judged for grace and execution, Hoketsu and his chestnut mare, Whisper, finished ninth in

the team grand prix and 35th in individual competition. He has earned wide admiration for competing with athletes young enough to be his grandchildren. In Japan, he is called "The Hope of Old Men" and is a spokesperson for a health-food company. "If I feel that I am not progressing, that I am not as good as before, then I will quit [after London]," Hoketsu told the Associated Press in March. "But fortunately, I don't feel like that. I feel I am still improving."



Back in the saddle: Hoketsu and Whisper at the 2010 World Equestrian Games

Board of Directors, 2011–12

President: Hardy Vieux '93
Secretary-Treasurer: Sterly L. Wilder '83
President-elect: Jeffrey C. Howard '76

Vice Presidents:

Julie Borger Ferguson '81, Carmichael Roberts Jr. '90, Ph.D. '95
Lee H. Roberts '90, Suzanne M. Rose '94

Duke Magazine-Editorial Advisory Board Representative:

Sarah Hardesty Bray '72

Directors-at-large:

Betsy Alden '64, D. Michael Bennett '77
Jack W. Boyd '85, Christopher Brandt '00,
Palmer Peebles Garson '79, Cecelia Gassner '94
Jason Goode '97, J.D. '00, Peter C. Griffith '78
Roseann Viscomi Hassey '83, Winston Henderson '90, J.D. '96
Edwin Howard Jr. '63, N. Shepard Moyle '84
C. Howard Nye '84, Kimberly Dawn Reed '86
Tonya Terrell Robinson '92, Mark E. Stalneckner '73
Pamela Stone '73, Paul Teller '93
John Tolsma '95, Wendy Tsai '92
Kathleen Kaylor Wagoner '77

Professional school representatives:

Carmichael Roberts Jr. '90, Ph.D. '95
Graduate School of Arts and Sciences
Wyman Fraser Davis '87, M.Div. '95, Divinity School
Robin Ten Kate M.B.A. '03, Fuqua School of Business
Charles F. Finley Jr. M.F. '67, Nicholas School of the Environment
Ershela Sims B.S.E. '93, Pratt School of Engineering
Amy Hepburn '97, M.P.P. '01, Sanford School of Public Policy
John A. Howell '72, J.D. '75, School of Law
Diana McNeill '78, M.D. '82, School of Medicine
Constance Cabell Kendall B.S.N. '84, School of Nursing
Judith Ann Maness M.H.A. '83
Graduate Program in Health Administration
Allen William Wicken M.S. '74, Graduate Program in Physical Therapy

Young alumni representatives:

Kyle Knight '08, Katie Laidlaw '04
Heather Renee Oh '03, James Pineda '05

Faculty representatives:

Alexander Hartemink '94, Associate Professor of Computer Science
Thomas W. Robisheaux '74, Associate Professor of History

Student representatives:

Daniel J. Griffith G '14
President, Graduate and Professional Student Council
Susan Foster '11, Co-chair, Student Alumni Advisory Board
Molly Himmelstein '12, Co-chair, Student Alumni Advisory Board

Honorary members:

N. Allison Haltom '72, William E. King '61, A.M. '63, Ph.D. '70
Suzanne J. Wasiolek '76, M.H.A. '78, LL.M. '93
Gerald L. Wilson B.D. '61, A.M. '68

Presidents, School and College Alumni Associations

J. Burton Palmer Jr. M.Div. '90, Divinity School
Karen E. Grund '84, M.B.A. '90, Fuqua School of Business
Michael Pentony B.S.E. '87, M.E.M. '96
Nicholas School of the Environment
John J. Glushik B.S.E. '90, Pratt School of Engineering
Thomas William Giegerich J.D. '80, School of Law
Dale R. Shaw '69, M.D. '73, School of Medicine
Kathleen E.V. Gallagher B.S.N. '75, School of Nursing
Judith Ann Maness M.H.A. '83
Graduate Program in Health Administration
Allen William Wicken M.S. '74, Graduate Program in Physical Therapy

Duke
ALUMNI ASSOCIATION

ClassNotes

Want to be featured in Class Notes?

Check out www.dukemagazine.duke.edu for style tips and submission guidelines, or e-mail us at dukemag@duke.edu.

Half-Century Club

1940s

Allan H. Meltzer '49 published *Why Capitalism?* The book explores the success of democratic capitalism and the failure of alternatives. He is a professor of political economy at Carnegie Mellon University and a visiting scholar at the Hoover Institution.

1950s

George C. Megill M.Div. '52 received the Volunteer of the Year Award at Central Prison in Raleigh for his involvement in the Kairos Prison Ministry program.

Ronald P. Nelson '52 has relocated from Connecticut to Pebble Beach, Calif., following the death of his wife. He is a volunteer interviewer of Duke applicants and was a marshal at the AT&T Pebble Beach golf tournament in February.

George E. Ogle B.D. '54 published *Our Lives in Korea and Korea in Our Lives*, which he cowrote with his wife. The book is a personal memoir detailing the 20 years the couple lived in South Korea as missionaries.

Herbert K. Lodder '55 was named to Maryland's Alzheimer's Disease and Related Disorders Commission.

Luciano L'Abate Ph.D. '56 published three books in 2011: *Hurt Feelings: Theory, Research, and Applications in Intimate Relationships*; *The Seven Sources of Pleasure in Life*; and *Sourcebook of Interactive Practice Exercises in Mental Health*. *Hurt Feelings* was nominated for the 2011 Book of the Year Award by the Georgia Writers Association. He is professor emeritus of psychology at Georgia State University in Atlanta.

Richard W. Bevis '59 published *Dudes & Savages, The Resonance of Yellowstone*, a book about the summer of 1957 when a group of Duke students worked at Yellowstone Park service stations.

1960s

Winifried "Fred" R. Dallmayr Ph.D. '60 published *Return to Nature? An Ecological Counter-history*. The book demonstrates how nature has been marginalized, colonized, and abused in the modern era.

Hoyt Mel Gilley '61 published *Sam and the Sad Dinosaur*, a children's book inspired by his grandchildren.

Barry Farnham '62 retired in August 2010 after 41 years as a public, international, independent social administrator. He lives in the historic section of Old San Juan, P.R., where he does community advocacy and modeling.

Jessica D. Richards Linden '62 won the 2011 Volunteer of the Year Suzi Award, in recognition of more than 20 years of support for Atlanta's nonprofit theater community.

'63 50th Reunion April 12-14, 2013

Robert L. Heidrick '63 was named chairman of the board for the conservancy of Southwest Florida in Naples, Fla. Heidrick retired in 2007 as vice chairman of Spencer Stuart, a leading executive search firm. He was president of the Duke Alumni Association from 1988 to 1989.

James M. "Jay" Ferguson '66 and his wife, Ranny, were awarded the Dignity & Respect Champion Award by the Center for Inclusion at the University of Pennsylvania Medical Center. He is chairman of Fifth Third Bank of Western Pennsylvania. He serves on the boards of directors of the Western Pennsylvania School for Blind Children and UPMC St. Margaret Memorial Hospital.

Jay W. Jackson '66 recently became president and CEO at Stuller Inc., the largest domestic manufacturer and distributor of fine jewelry, headquartered in Lafayette, La. Jackson serves as local chairman for the Duke Alumni Admissions Advisory Committee.

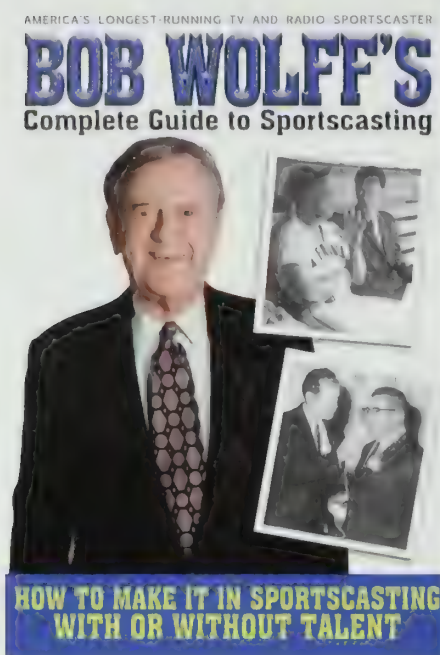
'68 45th Reunion April 12-14, 2013

Patrick A. Morelli A.M. '68 presented an illustration of his creation of the "Behold" monument overlooking the tomb of Martin Luther King Jr. at the King National Historic Site in Atlanta in February. He is an internationally recognized sculptor and architectural designer who lives in Albany, N.Y.

1970s

Adrian Juttner M.F. '70 celebrated the 40th anniversary of his New Orleans tree service business. He recently edited and published *Evoke* by Anne Bruder, a story set in Budapest at the twilight of the Austro-Hungarian Empire.

Richard C. Stuecker '70 has published the third in his series of books on youth development: *Inspiring Leadership in Youth*. He is an author for Research Press, and he writes fiction and poetry. He lives in Louisville, Ky.



'42

Bob Wolff '42 has published *Bob Wolff's Complete Guide to Sportscasting*, which chronicles his seventy-two-year career as a sports commentator for television and radio. Wolff got his start at WDNC as an undergraduate and has covered the World Series, the NFL championship, the NBA finals, and the Stanley Cup, as well as horse shows, college sports,

and the Westminster Kennel Club Dog Show. His book offers aspiring sportscasters tips on how to stand out in a crowded field, the art of the interview, and the enduring need for accuracy and good grammar.

Florida International University in Miami. He is developing new international institutional linkages, having recently retired from the Foreign Service after 25 years of work as a diplomat.

Paul M. Newby '77 of the North Carolina Supreme Court hosted a delegation of international judges for a week of education about the North Carolina justice system. The visiting judges were from the Supreme Judicial Council of Moldova.

John C. Stavros M.H.A. '77 was named senior vice president of marketing and development at Catholic Health, a health-care system in Buffalo, N.Y.

'78 35th Reunion April 12-14, 2013

John J. Coleman III '78, J.D. '81 was ranked a leading practitioner in the 2012 edition of *Chambers USA*, a directory featuring America's leading business lawyers. He practices labor and employment law in the Birmingham, Ala., office of Burr & Forman.

James T.R. Jones J.D. '78 published his memoir, *A Hidden Madness*, recounting his 30-year bout with bipolar disorder. He has delivered more than 50 speeches on severe mental illness, stigma, and the value of treatment.

1980s

Joseph T. Chun '80 was appointed chief of the division of plastic surgery at the University of Tennessee Medical Center.

Jonathan T. Upson B.S.E. '82 is as a senior development and government affairs manager for Australia's largest wind farm owner, Infigen Energy.

'83 30th Reunion April 12-14, 2013

Gregg A. Harris '83 recently founded TEMP Expertise, a business-development consultancy focused on emerging medical technology, in Tualatin, Ore.

Katherine Roberts Hite '83 published *Politics and the Art of Commemoration: Memorials to Struggle in Latin America and Spain*. She is a professor of political science and director of Latin American and Latino studies at Vassar College.

Louis A. Ruprecht Jr. '83, M.A. '85 published *Wincklemann and the Vatican's First Profane Museum*. The book documents the work of Johann Joachim Wincklemann, who helped create the first public art museum. Ruprecht is the inaugural holder of the William M. Suttles Chair in religious studies at Georgia State University.

Daniel D. Briere '84, M.B.A. '85 founded and launched Startup Connecticut as part of President Obama's Startup America initiative to overhaul America's startup ecosystem. He is working on a number of projects, including MoxMe!, a social networking startup focused on communities.

Anne P. Melick Brumbaugh '84, Ph.D. '95 recently became co-managing partner and chief analytics officer at Quintuit in Charleston, N.C. She joins **Karen Lesieur '84**, the company's founder, co-managing partner, and CEO.

John Chae B.S.E. '84 was elected to the Institute of Medicine of the National Academies and to

David W. Erdman B.S.E. '71 was named a Leader in the Law by *North Carolina Lawyers Weekly* magazine. He is a partner at Erdman Hockfield & Leone in Charlotte, where he practices family law.

Elizabeth G. Ferris '71 is a senior fellow at the Brookings Institution, where she researches and writes on humanitarian issues. Her most recent book, *The Politics of Protection: The Limits of Humanitarian Action*, was published in 2011.

Harry A. Swagart III '71 was named a fellow in the Litigation Counsel of America, an honorary society, and was named in *South Carolina Super Lawyers 2012*. He is a shareholder in Harry A. Swagart III in Columbia, S.C., where he concentrates in business, investment, estate and trust, and contract litigation.

James E. Douthat M.Div. '72, Ed.D. '77 will retire as president from Lycoming College in June 2013. Douthat was president of the Williamsport, Pa., school for 23 years and was previously dean of student life at Duke.

Cary A. Moomjian Jr. J.D. '72 has established CAM OilServ Advisors and a private consulting practice in Plano, Texas, to provide advisory, consulting, mediation, and legal services to the drilling, oil service, and petroleum industries. He was previously vice president and general counsel to Santa Fe International Corp. and Ensco.

'73 40th Reunion April 12-14, 2013

James C. Camp '73 recently became assistant dean for property administration and development at Southwestern Law School in Los Angeles.

Robert D. Peltz '73 was named in *Florida Super Lawyers 2012* in the field of admiralty/transportation litigation. He specializes in maritime law and is a partner in Leesfield & Partners in Miami.

Louise G. Upchurch Johnson '74 has been appointed to a five-year term as a trustee of the Charlotte W. Newcombe Foundation. She serves as associate pastor at the Presbyterian Church of Lawrenceville, N.J.

Jerome R. Smith '74 was named senior vice president, general counsel, chief compliance officer, and corporate secretary at Multimedia Games Holding Co. His expertise is in gaming law, corporate governance, and intellectual property.

Clarence "C.J." Gideon Jr. '75 was selected as a top lawyer in the field of medical malpractice by several publications, including *The Best Lawyers in America 2012*, *U.S. News & World Report*, *Mid-South Super Lawyers*, and the *Nashville Post*. He is a partner at Gideon & Wiseman in Nashville, Tenn.

Hilarion A. "Lari" Martinez '76 was named associate dean of undergraduate education at

the College of Fellows of the American Institute for Medical and Biological Engineers. He is professor and vice chair of physical medicine and rehabilitation, and professor of biomedical engineering at Case Western Reserve University.

Tonya Denise Clayton '84 published *How to Read a Florida Gulf Coast Beach: A Guide to Shadow Dunes, Ghost Forests, and Other Telltale Clues from an Ever-Changing Coast*.

Daniel M. Ferber '84 was honored by his book *Changing Planet, Changing Health: How the Climate Crisis Threatens Our Health and What We Can Do about It* being named one of the top 10 health and wellness books of 2011 by *Booklist*. He is an independent science journalist in Indianapolis.

Scott K. Tippet '84 was named a director at Carruthers & Roth in Greensboro. Tippet is a member of the firm's business, tax, and estates group.

Karl G. Benzio Jr. B.S.E. '85 was interviewed recently on NBC 10 in Philadelphia as a representative of Lighthouse Network, which he founded and serves as executive director. Benzio, a Christian psychiatrist, discussed the effects of a Supreme Court decision that separates the business practices of religious institutions from government interference.

A. Wesley Burks HS '85 was elected president of the American Academy of Allergy, Asthma & Immunology. He is also chair of the pediatrics department at UNC-CH and physician-in-chief of North Carolina Children's Hospital.

Joseph D. Wargo '85 is a partner in the Atlanta-based law firm Wargo French, focusing on commercial litigation, intellectual property, and class-action litigation.

Melissa L. Kelley '86 recently became executive director of the Sonoma County Regional Parks Foundation in Santa Rosa, Calif.

Wendy L. Johnson Lario '86 was named one of *NJBIZ* magazine's Best 50 Women in Business for 2012. She is a shareholder in the labor and employment practice of Greenberg Traurig's New Jersey office.

Francis J. Mootz III A.M. '86, J.D. '86 was appointed dean of the McGeorge School of Law at the University of the Pacific in Sacramento, Calif. He was previously a professor and associate dean at the law school of the University of Nevada.

Michael S. French '87, J.D. '90 is a partner in the Atlanta-based law firm of Wargo French. His expertise is in complex commercial litigation, intellectual property, and class-action litigation.

'88 25th Reunion April 12-14, 2013

Michael Harman '88 was elected to the Darien, Conn., board of education after spending two years on the town council. He also works for an innovation consulting firm.

William K. Mask M.D. '88 cowrote a children's book, *Griffin the Dragon and the Jump House*, with his 5-year-old son, Joshua.

Frank J. Squillace M.H.A. '88 recently became director of member services at the Charlottesville Regional Chamber of Commerce in Virginia.

Leora Y. Ger Bloom '89 published *Washington Food Artisans*, a book that chronicles the stories of seven food artisans and includes more than 50 recipes from Washington state chefs.

Kenneth B. Jacobs '89 was elected to the board of directors of Synovus Bank. He is managing shareholder of the Jacksonville office of GrayRobinson.

MARRIAGES: **Jennifer A. Parnell** '85 to Kenneth Warner Jr. on Oct. 16, 2010. Residence: Kodiak, Alaska... **Laura Hart Powell** '87 to Joseph P. Factor on Nov. 5, 2011. Residence: Powell, Ohio.

BIRTHS: Katherine Lynn to **Jeffrey A. Rzepiela** '89 and Leanne W. Rzepiela on Feb. 2, 2012.

1990s

Michael D. Kabat J.D. '90 made partner at the Atlanta-based law firm of Wargo French. His expertise is in labor and employment litigation.

Theodore C.M. Edwards II '91, J.D. '94 was appointed president of the Wake County Bar Association. He is a partner with Smith Moore Leatherwood in Raleigh, specializing in construction law and commercial litigation.

Matthew R. Carlson '92 is the CEO of Sunnovations, a manufacturer of solar water heating equipment.

Establish a Charitable Gift Annuity at Duke Before Rates Fall

When you make a gift of \$10,000 or more to establish a charitable gift annuity, Duke will pay you a fixed income for life. You also receive a current income tax deduction. Take advantage of this opportunity and secure your gift before rates fall July 1.

	YOUR AGE	RATE FOR GIFTS THROUGH 6/30/12	NEW RATE EFFECTIVE 7/1/12
Sample rates:	60	4.8	4.4
	70	5.8	5.1
	80	7.5	6.8
	YOUR AGES		
	70/68	5.0	4.5
	76/73	5.6	5.0

Contact us today to discuss gift annuities or other gift plans that can help you meet your financial and philanthropic goals.

Duke University Office of Gift Planning

Box 90600, Durham, NC 27708

Phone (919) 681-0464

Email gift.planning@dev.duke.edu

Explore gift plans at giving.duke.edu/giftplanning

'88

Amanda Lamb Griffin '88

has published *I Love You to God and Back*, a compilation of 100 bedtime prayers made by her then six-year-old daughter and Lamb's own spiritual reflections on those prayers. She is a TV journalist covering the crime beat for WRAL in Raleigh and teaches writing and journalism at Wake Tech. She lives in Cary, N.C.



Theodore W. Connolly '92 joined Looney & Grossman in the Boston law firm's bankruptcy and insolvency practice.

Derek J. Hardesty '92 was promoted to COO at King & Spalding in Atlanta. He will oversee non-legal operations of the firm.

Karen E. Terry '92 is listed in *The Best Lawyers in America 2012*. A lawyer in the West Palm Beach, Fla., office of Searcy Denney Scarola Barnhart & Shipley, she represents victims injured in catastrophes and medical malpractice cases.

'93 20th Reunion April 12-14, 2013

Donna Reeve Childress '93 joined Rowan Diagnostic Clinic in Salisbury, N.C., as an internal-medicine physician.

Robert L. Plummer '93 published *Journeys of Faith*, which explores the theological migrations taking place within Christianity today.

Zarena Doreen Aslami '94 published her third book, *The Dream Life of Citizens: Late Victorian Novels and the Fantasy of the State*. She is an assistant professor in the English department at Michigan State University.

Shannon M. Barrett '94 recently joined the Washington, office of O'Melveny & Myers as a member of its financial-services practice.



IRON DUKES

Building Champions




Support Duke student-athletes by becoming a member of the Iron Dukes.

Memberships start at \$100 and include a number of great benefits, such as priority seating and parking, invitations to special Iron Dukes events, and a subscription to *Go Duke the Magazine*.

The Iron Dukes
116 Cameron Indoor Stadium
Box 90542
Durham, NC 27708-0542
(919) 613-7575
IronDukes.net





Follow us at facebook.com/theirondukes

Follow us at twitter.com/theirondukes

Find us on [LinkedIn](https://linkedin.com/theirondukes)

Jason N. Hefter '94 published his first novel, *Hump Day*, a surrealist satire of the travails of the middle of the work week.

Joshua S. Broder '95 published *Diagnostic Imaging for the Emergency Physician*, which won the 2011 PROSE Award in Clinical Medicine. He is an associate professor and residency director in emergency medicine at Duke University Medical Center.

Jonathan C. Krisko '95 was named to *Charlotte Business Journal's* "40 Under 40," an annual award recognizing young professionals for their leadership, achievements, and community contributions. He works in the litigation department of Robinson Bradshaw's Charlotte office.

Joseph C. Pickens '95 was named among the "Ohio Rising Stars 2012" by *Super Lawyers*. He was recognized for his general litigation practice. He practices at Chester Willcox & Saxbe in Columbus, Ohio.

Robert F. Roscigno Ph.D. '96 was promoted to executive vice president at GeNO, a company that uses rocket-fuel chemistry to make inhaled medication for cardiopulmonary diseases.

Luba V. Zakharov M.T.S. '96 was named an associate professor and special-collections librarian at Azusa Pacific University.

Eric J. Gottesman '97 was selected to appear in the 2012 *deCordova Biennial*, a survey exhibition featuring artists across New England.

'98 *April 12-14, 2013*

Christopher C. Lam '98 joined Nexsen Pruet as a partner in their business litigation group. He focuses on disputes related to contracts, trade secrets, motorsports, defamation, and professional discipline.

Andrew J. Thomson '98 recently became an assistant district attorney in Philadelphia, in the special-operations division.

Chris W. Winland '98 was named to the 2011 "40 Under 40" in the *San Antonio Business Journal*. He is a principal in Good Company Associates, a business-development consulting firm specializing in clean energy.

Graham W. Gerhardt '99 became a partner at Bradley Arant Boult Cummings in Birmingham, Ala. He works in the firm's litigation and banking and financial-services practice groups.

Dara Zelnick Kesselheim '99 was named a partner at Choate, Hall & Stewart in Boston. She practices in the firm's government enforcement and compliance and major commercial litigation practice groups.

Kathryn Lea Reeve '99 was named a middle-school science teacher at Salisbury Academy in Salisbury, N.C.

Reginald H. Williams '99 was elected president of the South Carolina Association for the Ed-

ucation of Young Children. He is an assistant professor of early childhood education at South Carolina State University.

MARRIAGES: Sara L. Ayres '94 to Michael Craig on Feb. 25, 2012. Residence: Fort Wayne, Ind.... **Jennifer Eileen Coker** B.S.E. '98 to Robert J. Bechtloff on May 28, 2012. Residence: Portland, Ore.... **Elizabeth Barbee Kyle** '99 to Patrick O'Hanlon on Nov. 12, 2011. Residence: New York.

BIRTHS: Emily Dyer to **Matthew R. Carlson** '92 and Caroline Carlson on Nov. 26, 2011... Jack Rogan to **Justin E. Mitchell** '92 and Leslie Brock Mitchell on March 7, 2011... Samara Madison to **Ayanna K. Barrow Chance** '94 and Rawle J. Chance on Aug. 7, 2011... Caroline Siler to **Chad C. Sturgill** '94 and Melissa Sturgill on Aug. 21, 2011... Kate Diana to **Suzanne Bryan Crandall** '95 and J. Taylor Crandall on Dec. 6, 2011... Phoebe Jane to **Heather Goldberg Mendelow** '95 and Daniel B. Mendelow on Feb. 2, 2012... Ava Nicole to **Michelle Kitchman Strollo** '95, M.D. '02 and Michael Strollo on Dec. 13, 2011... Lauren Elizabeth to **Kathleen M. Greaney** B.S.E. '96 and Michael Schmidt on Dec. 22, 2011... Ryan Colby to **Barry S. Persh** '96 and Sherri S. Persh on Jan. 4, 2012... Caitlyn Julie Heins to **Amanda J. Crowe** '97 and James W. Heins on Dec. 20, 2011... Eliana Jane to **Jory M. Zand Lieber** '97 and **Matthew S. Lieber** '99 on June 14, 2011... Elizabeth Delia Lucile to **Percy L. Strickland** '97, M.T.S. '99 and **Susangeline Schmidt Strickland** '99

A Tradition of Excellence

We are your place for officially licensed
Duke merchandise.

With thousands of products to choose from,
we offer the largest selection of everything Duke.
Shop with us 24/7 via our online catalog and
place your order securely anytime, day or night.

Browse our online catalog @
www.shopdukestores.duke.edu

016 West Union Building | Box 90850
Durham, NC 27708-0850

One Team. One Common Goal.
To Provide Quality Service & Products to the Duke University Community.



on Feb. 24, 2012...Richard Godwin to **Kevin R. Kirchner** '98 and Susie L. Kirchner on Nov. 1, 2011...Caroline Megan to **Andrew J. Thomson** '98 and Megan G. Thomson on Aug. 29, 2011...Jude Alexander Ramsey to **Colette Rae Ann Alvis** '99 and **Peter Ramsey** '99 on Oct. 27, 2011...Jack Robert to **Jennifer Johnsen Brownlie** B.S.E. '99 and Jason Brownlie on Jan. 26, 2012...Landry Robbins Howard to **Hilary Howard Heieck** '99 and Adam H. Heieck on Dec. 17, 2011...Eli George to **Dara Zelnick Kesselheim** '99 and Jared Kesselheim on July 13, 2011...Kyle Parker to **Kristin Hendren Magee** '99 and **Matthew S. Magee** B.S.E. '99

on Jan. 8, 2012...Robin James to **Riley Weber Murdock** B.S.E. '99 and Jamie Murdock on Feb. 8, 2012...Noah Gabriel to **Joanne Hrusovsky Nazif** '99 and Tamim Nazif on Dec. 14, 2011...Panguitch Noice to **Andres N. Oliveros** '99 and Leah Oliveros on Jan. 3, 2012...William Makoto to **Benjamin A. Powell** '99 and Diane T. Powell on Dec. 30, 2011...Corbin Chao to **Susan Chao Reed** '99 and **Ryan S. Reed** '00 on Nov. 18, 2011...Samuel Ryder to **Todd H. Waldman** '99 and Elizabeth Z. Waldman on Dec. 19, 2011...Kennedy Madison to **Reginald H. Williams** '99 and Shannon Stukes Williams on Aug. 10, 2011.

2000s

Taylor S. Pendergrass '00 was named a senior staff attorney at the New York Civil Liberties Union. He specializes in criminal justice reform litigation.

Chad J. Rubin '00 was named a partner at Duane Morris in Philadelphia. He practices corporate and securities law, mergers and acquisitions, and securities offerings and compliance.

Barry H. Uhrman J.D. '00 was named the new assistant city attorney of Phoenix.

Alexandra K. Jaritz M.B.A. '01 was named senior vice president of brand strategy and marketing for Choice Hotels International Inc. She also is responsible for owner relations, franchise management, and procurement services.

Corinne Elizabeth Martin '01 was recognized as one of the "Law Leaders Rising" by the *Nashville Post*. She is an associate at Stites & Harbison and is past vice chair of the Nashville Bar Association environmental committee, secretary of the executive committee and board for Urban Green Lab, and secretary of the Lawyers' Association of Women.

Jenna B. Kiziah McGee '01, J.D. '04, LL.M. '04 recently became a partner at Parker Poe Adams & Bernstein in Charleston, S.C. She practices complex commercial and construction litigation.

Alisa D. Nave-Worth '01 joined the Las Vegas office of Brownstein Hyatt Farber Schreck as an associate in the litigation and government relations groups. She focuses on commercial litigation and local and state government.

Eric J. Huang '02 became an associate at Pepper Hamilton in Boston. He practices intellectual-property litigation.

Sarah Pfuhl J.D. '02 was promoted to partner at WilmerHale in New York.

Kenny J. Walden M.Div. '02 became university chaplain and assistant professor of philosophy and religion at Claflin University in Orangeburg, S.C.

'03 10th Reunion April 12-14, 2013

Joshua E. Fein '03 joined a group dentistry practice in northern Virginia, after serving as chief resident in endodontics at the University of Maryland since 2009.

Sabrina Beth Magid '04 was named in *Westchester Magazine's* "Top 22 People to Watch in Westchester County in 2012." She practices at Advanced Dentistry of Westchester in Harrison, N.Y.

Paul W. Redhage A.M. '04 was named president-elect of the National Agri-Marketing Association. He serves as strategic communications manager of FMC Corp.

Audra Eagle Yun '06 recently became an archivist at the University of California-Irvine.

Elizabeth Hill Flowers Ph.D. '07 published *Into the Pulpit: Southern Baptist Women and Power Since World War II*.

'92

Timothy J. Talley M.B.A. '92 has launched U-Lace, a customized, interchangeable lacing system for sneakers that is sold internationally. Previously, he was senior director of fashion headwear at New Era Cap Co.

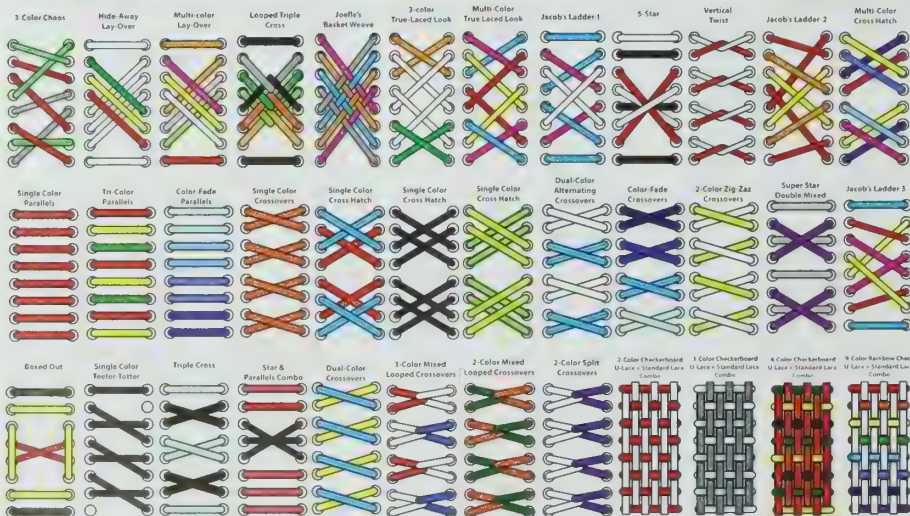


Courtesy, Timothy Talley



Lacing Patterns (6 & 8 Eyelet Designs)

Trick your kicks!™





LAST CHANCE – CLOSES JUNE 17

ALEXANDER CALDER AND CONTEMPORARY ART FORM, BALANCE, JOY

Tickets on sale at 919-684-4444, or www.events.duke.edu/calder.

Nasher Museum Members receive two free Calder tickets per day.

www.nasher.duke.edu

Alexander Calder and Contemporary Art: Form, Balance, Joy is organized by the Museum of Contemporary Art, Chicago. The exhibition is sponsored by The Northern Trust Company. Lead foundation support is provided by the Terra Foundation for American Art and the Chicago Community Trust. Major support for the exhibition is generously provided by The Kenneth and Anne Griffin Foundation. Additional generous support is provided by Margot and George Greig, Anne and Burt Kaplan, Ruth Horwich, The Broad Art Foundation, Gagosian Gallery, Lindy Bergman, Helyn Goldenberg, Sara Szold, and The Elizabeth F. Cheney Foundation.

At the Nasher Museum, major individual support for the exhibition is provided by Frances P. Rollins, Marilyn M. Arthur, Trent and Susan Carmichael, Drs. Victor and Lenore Behar, Kathi and Stephen Eason, and Mindy and Guy Solie. Additional generous support is provided by Deborah DeMott, Nancy Palmer Wardropper, The E. T. Rollins Jr. and Frances P. Rollins Fund, Jo and Peter Baer, Paula and Eugene Flood, Pepper and Donald Fluke, Kelly Braddy Van Winkle and Lance Van Winkle, Carolyn Aaronson, Diane Evia-Lanevi and Ingemar Lanevi, Caroline and Arthur Rogers, Angela O. Terry, and Richard Tigner. Major corporate and grant support for the exhibition is provided by the Mary Duke Biddle Foundation, NetApp, and the N.C. Arts Council, a division of the Department of Cultural Resources. Additional support is provided by Carolina Biological Supply Company, Duke's Pratt School of Engineering, The Research Triangle Park, Parker and Otis, Sigma Xi, The Scientific Research Society, Clinical Ambassador, *American Scientist* magazine, and Tech Shop.

ABOVE: Alexander Calder, *Blue Among Yellow and Red*, 1963. Painted sheet metal and steel wire, 43 x 63 inches diameter. Museum of Contemporary Art Chicago, The Leonard and Ruth Horwich Family Loan (EL1995.12). © 2012 Calder Foundation, New York / Artists Rights Society (ARS), New York. Photo by Nathan Keay, © MCA Chicago.



www.ncarts.org

Daniel K. Miller M.Div. '07 received a Ph.D. in theology and ethics from the University of Edinburgh in Scotland. He also published a book, *Animal Ethics and Theology: The Lens of the Good Samaritan*.

'08 5th Reunion April 12-14, 2013

David A. Graham '09 recently joined *The Atlantic* as an associate editor on the politics channel. Graham previously worked at *The Daily Beast* and interned at *The Wall Street Journal*.

Sidney L. Gullede IV '09, Navy ensign and marine of the 11th Marine Expeditionary Unit, participated in a community-service project at the House of Family children's shelter in Sihanoukville, Cambodia. The shelter serves as a refuge for HIV/AIDS-positive orphans and vulnerable children.

Andrew L. Simon M.B.A. '11 was made a senior consultant for Deloitte, a professional-services firm. He resides in Cincinnati.

Nicholas L. Simon J.D. '11 clerks for U.S. District Judge Karen K. Caldwell in Lexington, Ky.

Read Class Notes online!

Go to dukemagazine.duke.edu to connect with your classmates and share your good news.

MARRIAGES: **Jessica Meredith Lillesand** '02 to Wade Baugher on May 8, 2010. Residence: St. Petersburg, Fla.... **Joshua E. Fein** '03 to Danielle Kiefer on Dec. 30, 2011. Residence: Pikesville, Md.... **Christopher Boston** '04 to **Cortney D. Cooper** '06 on April 19, 2010. Residence: New York.... **Elena J. Edelman** '04, Ph.D. '08 to **David A. Orlando** Ph.D. '09 on Oct. 15, 2011. Residence: Somerville, Mass.... **Benjamin L. Burnham** B.S.E. '05 to **Megan Hanson** B.S.E. '05 on July 25, 2009. Residence: Evanston, Ill.... **Katherine E. Page** B.S.E. '05 to Paul D. DePenning on July 16, 2011. Residence: Denver.... **Brianna Elizabeth Powers** '05 to Haris Kulovic on May 28, 2011. Residence: Washington.... **Margaret B. Andrews** '06 to Hart G. "Chip" Dillard on Aug. 27, 2011. Residence: Atlanta.... **Anne Burchards Giguere**

'06 to Lee Kester on Oct. 22, 2011. Residence: Greenville, S.C.... **Rebecca B. Crotty** '07 to **Bayard H. Friedman II** '07 on June 4, 2011. Residence: Dallas.... **Ryan D. Lusk** M.B.A. '08 to **Melissa Malone** M.B.A. '08 on June 4, 2011. Residence: New York.... **Julia Symmes Robertson** '08 to Peter Barbieri Jr. on Dec. 10, 2011. Residence: Darien, Conn.... **Lisa Patterson** '09 to Grady Wier on Oct. 1, 2011. Residence: San Antonio.

BIRTHS: Tabitha Ruth to **Bernadette A. Hall Bruha** '00 and Adam J. Bruha on Nov. 17, 2011.... Lana Margot Caulier Darrot to **Julie Darrot** LL.M. '00 and Thibaud Caulier on Oct. 21, 2011.... Benjamin David to **Sara Burchell Kestner** '00 and Cory Kestner on Nov. 2, 2011.... Luke Henley Juhn Ho to **Tanya Henley Lam** M.S.N. '00 and **Gordon Ka Wing Lam** M.D. '01 on Oct. 14, 2011.... Lainey Mia to **Dana Ehrlich Miller** '00 and **Daniel A. Miller** '00 on Dec. 7, 2011.... Corbin Chao to **Ryan S. Reed** '00 and **Susan Chao Reed** '99 on Nov. 18, 2011.... Isaac Robert to **Alexis Heiden Stauss** '00 and **Jared M. Strauss** '00 on Jan. 28, 2012.... Sahana Kanchana to **Priya Ramaswami Baraniak** B.S.E. '01 and **Andrew P. Baraniak** Ph.D. '06 on Sept. 9, 2011.... Elle Madison to **Jana Gasn Beauchamp** '01 and **Kyle Beauchamp** '02 on Jan. 27, 2012.... Twins, Lillian Claire and Madeline Grace to **Brian Brockett** '01 and **Julie Doty Brockett** '01 on Aug. 11, 2011.... Margaret Kay to **Shelly Renee Culpepper** M.B.A. '01 and John S. Culpepper on March 20, 2011.... Brooke Elizabeth to **Lauren Nuechterlein Louis** B.S.E. '01 and Andy Louis on Dec. 10, 2011.... Cameron Leigh to **Mandi Silberman Mielke** '01 and Brian Mielke on Jan. 19, 2012.... Marcelle Vivienne to **Joseph M. Miller III** '01 and Patricia K. Miller on Nov. 7, 2011.... Ruby Abigail to **John Douglas Reid** '01 and **Pamela Wells Reid** '01 on Nov. 8, 2011.... Hadley Mae to **Jason S. Taub** '01 and **Sarah Plavner Taub** '01 on Feb. 7, 2012.... Jackson Richard to **Kevin T. Chu** '02, M.B.A. '08 and Lara Oliver Chu on Jan. 19, 2012.... Twins, Thomas Joseph Grocki and John Adams Grocki, to **Christopher M. Grocki** B.S.E. '02 and **Rebecca J. Tomlinson** '02 on Jan. 11, 2012.... Lauren Elizabeth to **Jaclyn E. McGowan Hanifen** B.S.E. '02 and Thomas J. Hanifen on Oct. 23, 2011.... Afedi Elijah to **Naakoshie G. Lamprey Nartey** '02 and Emmanuel Nartey on Jan. 15, 2012.... Logan Robert to **Aaron E. Salsberg** '02 and **Jodi Schlesinger Salsberg** '03 on Jan. 11, 2012.... Greta Katharine to **Samuel S. Wellman** M.D. '02 and **Danielle Lemuth Wellman** H.S. '09 on Dec. 23, 2011.... Eva Lynn to **Gregory C. Collision** B.S.E. '03 and Amanda Collision on Jan. 30, 2012.... Ella Torii to **Russell Richards** '03 and **Sara Zielske Richards** '03 on Feb. 25, 2012.... Mackenzie Carol to **Jamie Krzyzewski Spatola** '03, M.A. '10 and Christopher M. Spatola on Jan. 4, 2012.... Zachary Stephen to **Lori Peacock Blasdel** '04 and Steve Blasdel on

'05

Jennifer Beall '05 is the founder and CEO of CleanBee-Baby, an eco-friendly cleaning, installation, and repair service for baby car seats and strollers. She devised the company's business plan while earning an M.B.A. in marketing and entrepreneurship from the Kellogg School of Management at Northwestern University. Based in Los Angeles, the business was profiled in a spring 2012 issue of *Entrepreneur* magazine.



CHANGEAGENT



Joey McMahon '09

Dollar by Dollar

After his beloved grandfather died of bone cancer in December 2009, Joey McMahon felt compelled to do something constructive with his grief. His soul-searching led him back to Durham, where he launched The Monday Life, a nonprofit that works to improve the treatment experience for children in hospitals.

"All my life I've had the feeling that I wanted to do something good for other people, but I was never really sure of how to go about it," says McMahon, recalling how his mother, Robin, had volunteered at Duke Children's Hospital painting scenes on windows. In its pilot year, The Monday Life raised almost \$50,000, which has been used to provide iPads for children and their families at the Duke hospital, expand music and art-therapy programs, provide massage therapy for parents, and sponsor a summer camp.

The idea behind The Monday Life is that donors sign up to give one dollar every Monday. "Most people hate Mondays, but when you think about it, Mondays are one-seventh of your life, so why not turn that day into something positive? That's a simple commitment, and it can do a world of good," says McMahon.

McMahon is enrolled in the M.B.A. program at the Fuqua School of Business to learn more about expanding The Monday Life model on a national and international scale. He's already negotiated to bring The Monday Life to five other locations this year.

"My long-term goal is to help as many children as possible heal faster," he says. "We are looking to expand this internationally, including places where hospitals lack basic supplies. There's no limit to how much good we can do, one dollar at a time."

Feb. 29, 2012...Emma Michelle to **Brad L. Dolian** '04 and **Lauren Michelle Dolian** '05 on Nov. 30, 2010... Robert Broyhill to **Laura Beach Dugan** '05, J.D. '08 and **Brendan C. Dugan** M.B.A. '07 on July 9, 2011...Owen Dain to **Kyle D. Eckermann** M.B.A. '05 and **Robyn Adair Eckermann** M.B.A. '05 on Jan. 14, 2012...Sydney Marie to **Lauren Troyer Saturnus** '06 and **Matthew J. Saturnus** '06 on March 1, 2012.

2010s

MARRIAGES: **Andrew L. Simon** M.B.A. '11 to Andrea Fischer on July 11, 2011. Residence: Cincinnati...**Nicholas L. Simon** J.D. '11 to Jennifer Von Deylen on Aug. 20, 2011. Residence: Lexington, Ky.

BIRTH: Yasmina Hatem Al-Shihabi to **Hatem Al-Shihabi** M.B.A. '11 and Lana Dajani on Feb. 29, 2012.

INMEMORIAM

Nellie Boone Coon R.N. '35 of Springfield, Va., on March 29, 2011. She is survived by a son, a daughter, two sisters, a brother, two grandchildren, and a great-granddaughter.

Alma Mewborn Herb '35 of Wyomissing, Pa., on Feb. 7, 2012. She was a member of the Chapel Choir and received her degree in education. She worked in the Wilson school district as an English teacher and guidance counselor until her retirement in 1980. She is survived by a son; a daughter, **Barbara Herb Wright** '58; two brothers; a sister; five grandchildren; and eight great-grandchildren.

Janet Earl Miller '35 of Greensboro, Vt., on Jan. 6, 2012. She was an editor of the Quaker Oats Co. magazine and wrote stories for the radio show *The Lone Ranger*. Survivors include two daughters.

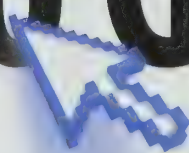
Harriet Way Shealy '35 of Columbia, S.C., on Feb. 1, 2012. She was the president of the Women's Auxiliary to the Columbia Medical Society, the Women's Auxiliary to the South Carolina Medical Association, and the local and state chapters of the Daughters of the American Revolution. She was also chair of the board of trustees for the Columbia YWCA. She is survived by a daughter, **Attelia Shealy Blackard** '61; a son; five grandchildren; and nine great-grandchildren.

Sue Massenburg Starr R.N. '35, B.S.N. '40, of Towson, Md., on March 23, 2011. She is survived by a son.

Georgia "Garnett" Goodson Saunders '36 of Winston-Salem, on Dec. 6, 2011. She was a member of the Philocalian Book Club, the Dogwood Garden Club, and the Winston-Salem Debutante Committee, and served on the board of the Child Guidance Clinic. She is survived by two sons, two daughters, a brother, 10 grandchildren, and 14 great-grandchildren.

Margaret Ormond Hardin '38 of Winston-Salem, on Dec. 8, 2011. She was an elementary-school teacher. She is survived by two sons, **Marvin O. Hardin** '66 and **Elliot W. "Wannie" Hardin Jr.** '62, M.Div. '67; two daughters;

Get It To Go



See videos and online-only content

Read and share class notes

Comment on articles

Share your favorites with friends

Read *Duke Magazine* online at the all-new
dukemagazine.duke.edu.

a daughter-in-law, **Carol Whetstone Hardin** '68; a sister; seven grandchildren, including grandson **Edward Miles Hardin** '93; and 12 great-grandchildren.

Howard C. Ris Sr. '38 of Golf, Fla., on Jan. 11, 2012. He worked with his father at their printing paper-distribution company (first Keith Products, then Ris Paper Co.) in New York before serving in World War II with the Army Intelligence Corps. After the war, he continued at Ris Paper, eventually becoming president and CEO. He is survived by a son, **Howard C. Ris Jr.** '70; a daughter; five grandchildren, including **Elisabeth "Lillie" Marie Ris** '06; and two great-grandchildren.

C. Curtis Collins Jr. M.D. '40 of Jacksonville, Fla., on Dec. 14, 2011. He was a full commander in the Navy during World War II on the USS *Missouri* before completing his residency in general surgery at Cincinnati General Hospital. He was also chief of staff at St. Luke's Hospital in Jacksonville. He is survived by his wife, Mercy; a daughter; a son; a sister; and several grandchildren and great-grandchildren.

Ida Leane Warren Flax A.M. '40 of Potomac, Md., on Sept. 26, 2011. She worked as a cryptanalyst during World War II and deciphered coded messages for the Army in Virginia. She was also a member of the Piasecki Helicopter Corp., where she helped develop the tandem-rotor helicopter, or the "flying banana." She is survived by her husband, Alexander; a daughter; and two brothers.

Gustav F. Forssell '40 of Queens, N.Y., on Nov. 29, 2011. He earned his degree in mathematics and was a member of Phi Kappa Sigma and the Duke Players. Survivors include two sons and two daughters.

Mary McCartt Hildebrandt A.M. '40 of Dayton, Ohio, on Nov. 27, 2010. She taught language arts in Tennessee and Dayton. Survivors include a son and a daughter.

William D. Peters Sr. '40 of Paramus, N.J., on March 29, 2011. He was a sales manager for International Paper Co. in New York for 35 years and served in the Army in World War II. He is survived by a son.

James W. "Bill" Bew II '41, M.E. '41 of Stuart, Fla., on Jan. 8, 2012. He was a manager of engineering for 35 years at Trans World Airlines and served in World War II as an Army Air Corps captain. He is survived by a son, a daughter, a sister, three grandchildren, and three great-grandchildren.

Mary Elizabeth Bunce '41 of Bernardsville, N.J., on Dec. 18, 2011. She majored in economics and was a substitute teacher in the Bernardsville and Basking Ridge school systems in New Jersey. She volunteered as a life guard at the YMCA and with the Visiting Nurse Association. She is survived by four daughters, three grandchildren, and a great-grandchild.

Ruth Stockdale McClure '41, A.M. '42 of Suwanee, Ga., on Jan. 11, 2012. She was a member and honorary secretary of the Shakerag Hounds Hunt Club. At Duke, she received her degrees in chemistry and was a member of Alpha Phi. She is survived by a daughter, two sons, two grandchildren, two step-grandchildren, and 11 great-grandchildren.

Leonora Hall McEnerney '41 of Clearwater, Fla., on Dec. 5, 2007. She is survived by a son, two grandchildren, and five great-grandchildren.

Robert H. Moyer '41, of Harrisburg, Pa., on Jan. 30, 2012. He was a member of the first basketball team to play in Cameron Indoor Stadium and was employed with DuPont from graduation until retirement in 1979. He worked in dyes and chemicals, marketing, and, during World War II, he was the company's representative on the Manhattan Project. He is survived by his wife, Ellen; a daughter; two sons; and two grandchildren.

Frances Freiler Nobles '41 of Hazlehurst, Miss., on Jan. 25, 2012. She was bookkeeper and eventual manager of her father's cattle company in Hazlehurst, as well as a Daughter of the American Revolution and member of the Hazlehurst Garden Club. She is survived by three daughters, including **Russell Ann Nobles** '69 and **Susan Nobles Smith** '73; a son; a sister; and four grandchildren.

Donald R. "Dick" Beeson Jr. B.S.C.E. '42 of Johnson City, Tenn., on Jan. 9, 2012. He enrolled at Duke at the age of sixteen and served as a Navy lieutenant during World War II. He then joined his father's practice, Beeson & Beeson Architects (now Beeson, Lusk & Street), and was thought to hold the oldest active architectural license in Tennessee. He is survived by a son, a daughter, two sisters, six grandchildren, and five great-grandchildren.

Virginia Haile Ramsey '42 of Baltimore, on Jan. 27, 2012. She taught mathematics at Towson high school in the 1940s and was a member of the Towson United Methodist Church and the Girl Scouts of Central Maryland. She is survived by her husband, Wilbur; two sons; two daughters, including **Catherine Ramsey Kane** '69; three grandchildren; and a great-grandson.

Frederick H. Berry '43, M.F. '44 of Columbus, Ohio, on Jan. 14, 2012. He worked with the U.S. Department of Agriculture for 37 years until his retirement in 1983. He was also a member of the Society of American Foresters. He is survived by his wife, Norma; a son; a sister; a grandson; and two great-grandchildren.

Douglas V. Henshaw '43 of Morristown, N.J., on Feb. 1, 2012. He served in the Army Air Corps during World War II in England and France before beginning his career with N.J. Bell Telephone and AT&T. He is survived by his wife, **Helen Brinson Henshaw** '43; two sons; seven grandchildren; and a great-granddaughter.

Robert R. Lassiter Jr. '43 of West Yarmouth, Mass., on Sept. 24, 2011. He majored in English and was a member of Sigma Phi Epsilon. He is survived by his wife, Beatrice; a son; and a daughter.

Iris Melton Whitaker B.S.N. '43, R.N. '43 of Fuquay-Varina, N.C., on Jan. 22, 2011. She was a nurse at Lenox Baker Children's Hospital in Durham and a charter member of Binkley Baptist Church in Chapel Hill. There, she was a member of the AIDS care team and caretaker of the sanctuary. She is survived by three daughters, a son, seven grandchildren, and a great-grandchild.

Richard N. Wrenn '43, M.D. '47 of Anderson, S.C., on Jan. 26, 2012. He served as a lieutenant in the Navy before becoming the director of Or-

thopaedic Services for Carolinas Health. He was elected to the National American Orthopaedic Association, after bringing hip-joint replacement to the Southeast and establishing orthopaedic clinics in several countries in the developing world. He is survived by his wife, **Doris Bain Wrenn** R.N. '48; three sons; eight grandchildren; and three great-grandsons.

George B. Halperin Jr. '45 of Hanover, N.H., on Dec. 7, 2011. He was a hospital corpsman for the Navy during World War II and was awarded the Navy Commendation Medal and two Navy Unit Commendations during his 20 years of service. After the military, he was assistant principal of

Stowe High School and taught history in West Germany. He is survived by his wife, Kathleen; a son; two stepchildren; a sister; six grandchildren; and a great-grandson.

Doris Dill Holaday '45 of Indianapolis, on Jan. 17, 2012. She worked in fashion merchandising in New York for several years before earning a degree in library science at Rutgers University. She then worked as a high-school librarian in the Somerville, N.J., school district for 20 years. She is survived by two sons, a daughter, and 16 grandchildren.

Julian D. Sanger J.D. '45 of Richmond, Va., on Feb. 7, 2012. He practiced with Cutchins &

How do you want to retire?

Reconnect



Free yourself from home ownership worries and spend more quality time with the ones you love. Whether it's a special holiday, a weekend or just a regular weekday, choosing a secure, maintenance-free lifestyle at The Village at Brookwood strengthens your connection with the ones who matter most.

The Village at Brookwood — This is how we do retirement.

1860 Brookwood Ave.
Burlington, NC




The VILLAGE
AT BROOKWOOD

Sponsored by
Alamance Regional
Medical Center

800-282-2053

www.VillageAtBrookwood.org

Cuthrins for several years, then was employed by the State Corporation Commission as a charter examiner for 31 years. He was also a member of Kiwanis and The Shepherd's Center. Survivors include a cousin and 10 nieces and nephews.

Lawrence B. Simons '45 of Hilton Head, S.C., on Dec. 29, 2011. He was the former assistant secretary of the Department of Housing and Urban Development and commissioner of the Federal Housing Administration under the Carter administration. He was named Man of the Year by the National Housing Rehabilitation Association in 1980 and admitted into the National Association of Home Builders Hall of Fame in 2002. Survivors include his wife, Annalou; a son; a daughter; a sister, **Ruth Simons Weisgal** '57; four grandchildren; and five great-grandchildren.

Maurice Kenneth M. Starr '45 of Bloomfield, Conn., on Dec. 4, 2011. He was an intelligence officer in the Navy and taught in China at the Tsingtao American School from 1947 to 1948. He was active in several professional museum organizations and was curator of Asiatic archaeology and ethnology at the Field Museum in Chicago for more than 10 years. He is survived by his wife, Betty, and a daughter.

Robert L. Weaver '45 of Jacksonville, Fla., on Jan. 15, 2012. Survivors include a niece.

Deane Kern Barbour '47 of Northfield, Minn., on Dec. 23, 2011. She was a summer camp counselor and continued her dedication to summer camp by recruiting young men she

thought would benefit from camp experiences and finding scholarships, clothing, and transport for them. She was a teacher and deacon at the United Church of Christ. She is survived by her husband, **Ian G. Barbour** A.M. '47; two sons; two daughters; a brother; and three grandchildren.

W. Lester Brooks Jr. M.D. '47 of Charlotte, on Jan. 14, 2012. While working toward his medical degree at Duke, he played on the golf team and later became a lifetime member of the Iron Dukes. He was a first lieutenant in the Army during the Korean War. After a career in medicine, he established the Brooks Laboratory for Back Pain Research at the Carolinas Medical Center in Charlotte and a chair in rheumatology at Duke University School of Medicine. He was also a member of the North Carolina Medical Society and president of the Mecklenburg County Medical Society. He is survived by his wife, Patty; a son, **William L. Brooks III** '76; two daughters, including, **Janet Brooks Dudley** '73; a brother-in-law, **Benjamin M. Frizzell** B.S.E.E. '57; six grandchildren, including **John Brooks Dudley** '10; and two great-grandchildren.

Jack G. Goss '47 of Claremont, Calif., on Oct. 1, 2011. Survivors include a daughter.

Marjorie Caveness Hales '47 of Raleigh, on Jan. 24, 2012. She majored in zoology and worked in the zoology department at N.C. State University. She is survived by two sons; a daughter; a sister, **Betty Caveness Edens** '50; a brother-in-law, **John C. Edens** '50; six grandchildren; a niece, **Brenda Edens Kerr** '75; and

a cousin, **Doris Caveness Kirk** '48, and her husband, **William D. Kirk Sr.** '48.

Frank B. Hornor '47 of Richmond Hill, Ga., on Dec. 15, 2011. He was a lieutenant in the Navy during World War II. He worked in the banking industry for 40 years, retiring as senior vice president at First Virginia Bankshares Corp. He volunteered for the American Heart Association and the American Cancer Society. He is survived by a daughter, a son, a brother, eight grandchildren, and three great-grandchildren.

Barbara E. Peterson Lohrstorfer R.N. '47 of Battle Creek, Mich., on Jan. 16, 2012. After completing her nursing degree, she completed an additional year of premed education at Duke before women were removed from the program at the end of World War II. She was a nurse at several hospitals, a member of the Texas Skydiving Club, and president of the Battle Creek Women's Football Club. She is survived by her husband, John; eight sons; a daughter; 24 grandchildren; and 22 great-grandchildren.

N. Ellen Goforth Montero R.N. '47, B.S.N. '48 of Rutherford County, N.C., on Jan. 20, 2012. She won the Bagby Award in pediatrics as top senior nurse while at Duke, eventually teaching nursing at the Medical College of Georgia. She was a Red Cross volunteer, a former president of the Utility Club, and a charter member of the Griffin Spalding Historical Society. She is survived by a son, a daughter, a sister, five grandchildren, and two great-grandsons.

John C. Morfit Jr. '47, of Cary, N.C., on Feb. 5, 2012. He served in the Navy and was an editor with the Federal Broadcast Information Service in Kauai, Hawaii, and Okinawa before transferring to the Central Intelligence Agency. He worked with the CIA for 35 years, first as an editor, then as the executive, for the scientific technology analysis group and was awarded the Career Intelligence Achievement Medal. He is survived by his wife, Gail; a daughter; two sons; two stepdaughters; a stepson; 14 grandchildren; and a great-grandchild.

Harold D. Spears J.D. '47 of Ironton, Ohio, on Feb. 8, 2012. He was a Navy lieutenant and gunnery officer during World War II and received a Letter of Commendation for valor during the invasion at Luzon, when he shot down a suicide plane diving at his ship. He practiced law and received the Ohio State Bar Foundation's Honorary Life Fellowship Award. He is survived by his wife, **Wanda White Spears** R.N. '47; two sons, including **Harold C. Spears** '76, J.D. '79; two daughters; nine grandchildren; and six great-grandchildren.

Robert C. Welsh M.D. '47 of Miami, on Jan. 8, 2012. He launched the Volunteer Eye Surgeons Association, developed a portable eye-operating microscope, and went on mission trips to the Philippines, Haiti, Jamaica, and other areas. He won the Honor Award from the American Academy of Ophthalmology and the Maumenee Gold Award from Baylor College of Medicine for excellence in cataract-surgery education. He is survived by his wife, Judi; two sons; and a sister.

Mary Jean Armistead '48 of South Roanoke, Va., on Nov. 27, 2010. She worked in Washington for 32 years, serving much of her time as the chief legislative assistant for six congressmen and a senator. Survivors include a niece, **Amanda Jean Smith** '96.



Durham's Favorite Destination

Washington Duke Inn & Golf Club

3001 CAMERON BOULEVARD, DURHAM, NC 27705
800.443.3853 919.490.0999 WASHINGTONDUKEINN.COM

Follow us on Facebook and Twitter

Lillian M. Bryson Campbell '48 of Lynchburg, Va., on Dec. 24, 2011. She was an elementary-school teacher with the Lynchburg public school system for 40 years, as well as one of the first female graduates of Duke. She was also a member of the Quaker Memorial Presbyterian Church and the Lynchburg Retired Teachers Association. She is survived by two daughters, three grandchildren, and four great-grandchildren.

Noble J. David '48, M.D. '52 of Jacksonville, Fla., on Nov. 30, 2011. He was a medic during the Korean War in Fukuoka, Japan. He was a professor of neurology at the University of Miami and chief of the neurology service at Jackson Memorial Hospital. Survivors include two sons, including **Jonathan N. David** '87; two daughters; a sister; a brother-in-law, **John M. Howell** Ph.D. '54; a granddaughter, **Lisa Kathleen David** '14; four nieces, including **Lisa Howell Neal** '78 and **Christiane E. Stahl** M.D. '79; four nephews, including **Clifford B. David** '68, M.D. '72, **Richard J. David** M.D. '74, **David N. Howell** '76, M.D. '80, Ph.D. '82, and **Joseph L. Howell** '79; and a great-nephew, **Charles J. David** '01.

Enid Troxler Dula R.N. '48 of Winston-Salem, on Jan. 12, 2012. She was a nurse in the medical department of the R.J. Reynolds Tobacco Co. in Winston-Salem and a member of the North Carolina Nurses Association. She is survived by a son, a grandson, and two great-grandchildren.

Zeno L. Edwards Jr. '48 of Washington, N.C., on Aug. 20, 2011. After serving in the Navy, he practiced dentistry for many years. He later served four terms in the N.C. General Assembly, where his main contributions were made in the health-care field. He is survived by his wife, **Rosemarie Wilson Edwards** '49; three sons, **Zeno L. Edwards III** '74, **Thomas W. Edwards** '79, and **Seth H. Edwards** '87; a daughter; a sister, **Lucinda Edwards Minton** '50; 12 grandchildren; and a great-granddaughter.

Patricia Reuter Hawkins '48 of Fort Myers, Fla., on Dec. 12, 2011. She was a bookkeeper and a volunteer for Hospital Women's Auxiliary and the Welcome Wagon. She was a member of The Red Hat Society and the Rosary Society. She is survived by eight sons, a daughter, a sister, and numerous grandchildren and great-grandchildren.

Henry L. Shapiro B.S.M.E. '48 of Palm Beach Gardens, Fla., on Aug. 2, 2011. He was a member of Zeta Beta Tau. Survivors include his wife, **Fay Rees Shapiro** '50.

Mary Kathyryne Jordan Corrigan '49 of Tampa, Fla., on Dec. 2, 2011. She was an underwriter for Poe & Associates. She volunteered with the Girl Scouts and Boys Scouts and the Tampa General Hospital Healthpark clinics, where she provided translation services. She is survived by a son; a daughter, **Kathyryne R. Doughty** '80; a sister, **Margaret Jordan Stevens** '53; and two granddaughters.

David O. Speir '49 of Greenville, N.C., on Jan. 18, 2012. He served in the 1885th Engineer Aviation Battalion during World War II, stationed in Guam and Okinawa, before graduating from Duke. He was president and CEO of Bethel Manufacturing Co. in North Carolina and later served on the board of trustees for Pitt Memorial Hospital, Pitt Industrial Relations Board, and the Pitt

County Development Commission. He is survived by his wife, **Betty Smith Speir** '49; two daughters; and eight grandchildren.

John P. Briggs HS '50 of Amherst, Mass., on Nov. 28, 2011. He became the senior resident psychiatrist at the Wisconsin School for Boys in Waukesha after four years in the Navy. He was also the chief psychiatrist and clinical director at Children's Village in Dobbs Ferry, N.Y. He served as chair of public information for the American Academy of Psychoanalysis and editor of its journal, *The Academy*, for several years. He is survived by two sons and two grandsons.

Eugene C. Drozdowski A.M. '50, Ph.D. '64 of Winston-Salem, on Dec. 29, 2011. He taught history at Appalachian State University before his retirement in 1986. He received a Purple Heart for his service in the Pacific during World War II. He is survived by three daughters, including **Catharine Isabella Drozdowski** '79; a son; a brother; and a granddaughter.

Fred A. McNeer Jr. '50 of Charlotte, on Jan. 27, 2012. He served in the Navy at the end of World War II and was called back for two years during the Korean War. He was a real-estate appraiser and commercial real-estate loan solicitor and worked with what is now Bank of America for 25 years before retiring in 1990. Survivors include several cousins.

Betty Swofford Turner M.R.E. '50 of Maryville, Tenn., on Nov. 21, 2011. She was a member of the Holston Conference of the United Methodist Church and served as minister of music

at several Methodist churches. She was also the administrator of Asbury Acres Retirement Community in Maryville for 20 years. She is survived by two daughters and a granddaughter.

Louis H. Adcock '51, A.M. '53 of Wilmington, N.C., on Nov. 18, 2011. He received his degrees in chemistry and went on to teach the subject at UNC-Wilmington for 47 years. He is survived by three daughters, two sisters, and two grandsons.

James E. Dimmette M.D. '51 of Las Vegas, N.M., on Oct. 23, 2010.

Ernest D. Eppley '51 of Boone, N.C., on Dec. 5, 2010. Survivors include his wife, Anita, and three sons.

Charles W. Griffin '51 of West Jefferson, N.C., on June 3, 2010.

Robert F. McLeod '51 of Southern Pines, N.C., on March 11, 2011. He majored in economics and became an accountant for Exxon petroleum. He is survived by his wife, Jean; two daughters; a son; and a brother.

John W. Snow '51, M.D. '55 of Jacksonville, Fla., on Dec. 11, 2011. In 1964, he became the first hand surgeon in Jacksonville. He published more than 40 different articles in medical journals and created a number of medical techniques that bear his name. He is survived by his wife, Patricia; two sons; three daughters, including **Stefanie Hunter Snow** '87; and a son-in-law, **Jeffrey B. Coopersmith** '86.



Here's To Fine Cuisine...
prepared, served and cleaned up by someone else!

Just one of the wonderful indulgences we offer. Call us to see why folks just like you have chosen to satisfy their palates and their lives with us.

20 Years of Excellence
The FOREST at DUKE
 1992-2012
 Renowned Retirement Living

2701 Pickett Road, Durham, NC 27705
 919.490.8000 • 800.474.0258 • www.forestduke.org




Ruthann Imler Wood '51 of Jacksonville, Fla., on Oct. 2, 2011. She was president of the sophomore Woman's College class and a member of Kappa Alpha Theta and the cheerleading squad. After Duke, she became a member of the Laurel Garden Circle, the Tale Spinners Book Club, and the Audubon Society. She is survived by two daughters; a son; five grandchildren; and a niece, **Lee Clark Johns** '64.

James Edwin Fisher '52 of Henderson, N.C., on Dec. 4, 2011. He served in the Navy during World War II. He was a project manager for the Vance County schools. He is survived by his wife, Mary; a son; three brothers; two grandchildren; and three great-grandchildren.

Nancy Wright King R.N. '53 of Shelby, N.C., on Dec. 7, 2010. Survivors include four daughters, three brothers, a sister, seven grandchildren, and four great-grandchildren.

Page D. Huckabee Link '53 of Silver Spring, Md., on Dec. 27, 2011. She is survived by two daughters; a sister; a brother; four grandsons; and an aunt, **Alice Huckabee Crowell** '32.

Mervin Swing Jr. '53 of Tucson, Ariz., on Nov. 3, 2011. Survivors include his wife, Mary.

James E. Vann '53, M.A.T. '54 of Wilmington, N.C., on Feb. 1, 2012. He served in the Marine Corps as a captain and later became the founding president of Samson Community College, where he was employed for 10 years. He was also executive director of a NASA science and technology research center. He is survived by his wife, **Martha Curlee Vann** '55; two daughters; and five grandchildren.

Robert W. Bradshaw Jr. '54, LL.B. '57 of Raleigh, on Jan. 20, 2012. He helped found one of Charlotte's largest law firms, Robinson, Bradshaw & Hinson, in 1960. He worked closely with former Gov. Jim Martin, who then helped Bradshaw become the state Republican Party chair. He is survived by his wife, Janet; a son; a daughter; two brothers; three grandchildren; and five step-grandchildren.

Ronald D. Ertley '54 of Wilkes-Barre, Pa., on Jan. 7, 2012. He served in the Air Force and retired as a captain before directing the Pennsylvania Automobile Association and founding Tech Aviation and Ertley MotorWorld (now MotorWorld), a large auto dealership. He is survived by his wife, Carol; three daughters; a son; two sisters; and four grandchildren.

Richard B. Hood '54 of Albuquerque, N.M., on Jan. 25, 2012. He taught at Colorado State University and the University of New Mexico before retiring in 1993 after serving as the chair of the speech and hearing sciences department for seven years. He then started a hearing-aid business from home. He is survived by his wife, Suzanne; two daughters; a sister; a brother; and four grandchildren.

John D. Johnston Jr. '54, LL.B. '56 of Hendersonville, N.C., on Dec. 18, 2011. After a brief career with J.P. Morgan & Co., he taught at Duke law school and at New York University law school until he retired in 1990 as professor emeritus. He specialized in property law and land-use regulation and was a champion of gender equality. He is survived by his wife, Diana; five daughters; a son; two stepdaughters; a sister, **Aileen Johnston Trollinger** '54; 17 grandchildren; and a great-grandson.

Ernest C. "Johnny" Long HS '54 of Antigua, Guatemala, on Sept. 2, 2011. He served in the British Royal Air Force during World War II. After spending a sabbatical in Guatemala to help develop its medical infrastructure, he remained to continue his work in medicine. He also published a collection of fiction in 2009 and worked to establish a library in Antigua. Survivors include his wife, Annette.

Anne Williams McAllister '54 of Hickory, N.C., on Nov. 6, 2010. She helped spearhead the fundraising and restoration of Caldwell County's Fort Defiance, home of Revolutionary War General William Lenoir. She received two publishing awards from the North Carolina Genealogy Society, in addition to having eight of her publications selected for the North Carolina Collection at UNC-CH. She is survived by three sons and two grandsons.

Graham T. Rowley '54 of Salisbury, Md., on Feb. 1, 2012. He was an officer in the Air Force and a member of the Chapel Choir and Glee Club at Duke. He is survived by a son, **Daniel T. Rowley** B.S.E. '86; a daughter; a brother; a stepbrother; a stepsister; and two grandsons.

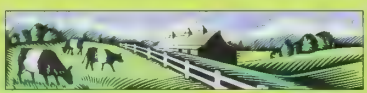
Marshall R. "Cass" Cassedy Sr. LL.B. '56 of Tallahassee, Fla., on Dec. 5, 2011. He retired from the Marine Corps as a lieutenant colonel before joining Turnbull & Senterfitt in Orlando, Fla. He also established McFarlain & Cassedy in 1980, retiring in 1996 after holding several positions, including president of the Florida Society of Association Executives. He is survived by his wife, Donna; two sons; two daughters; and 11 grandchildren.

Hugh H. Crawford HS '56 of Palm Springs, Calif., on Oct. 25, 2009. He was a pioneer in hand trauma and reconstructive surgery and was a field surgeon with the Marine Corps during the Korean War. He also volunteered two civilian tours in Vietnam before opening his own practice in 1969, where he stayed until his 1996 retirement. He is survived by his partner, Patrick Daltroff, and a sister.

Robert M. Graper '57 of Durham, on Jan. 15, 2012. He worked for the Research Triangle Institute in the office of human resources until his retirement in 1998, when he began work for the Durham Habitat for Humanity as a member of the "Geezers." He was active in the Durham Chamber of Commerce and the American Red Cross. He is survived by his wife, Jane; a daughter; a son; a sister; a brother; three grandchildren; and several nieces and nephews, including **Karen Griffin Tyrrell** '84.

James R. Warbasse HS '57 of Baltimore, on Jan. 7, 2012. He was the chief of cardiology at the former U.S. Public Health Service Hospital in Wyman Park and contributed many articles to medical literature concerning the evaluation and treatment of coronary heart disease. He is survived by a daughter, three sons, and five grandchildren.

Robert H. Knight B.S.M.E. '58 of Oxnard, Calif., on Jan. 4, 2012. He worked for NASA's Moon Discovery Program, working on the design of the first moon landing and the original "golf cart" left on the moon. He was also an electronics engineer for the Department of Defense, the Navy, and the Pacific Missile Range Facility in Kauai, Hawaii. He is survived by his wife, Connie; two daughters; a son, **Robert A. Knight** B.S.E. '73; a stepdaughter; two stepsons; 14 step-grandchildren; and four step-great-grandchildren.




GALLOWAY RIDGE
AT FEARRINGTON
Distinctive Retirement Living

Rediscover... more exciting choices.

Rediscover Galloway Ridge at Fearrington.

You'll find even more to love at Galloway Ridge. Like your choice of three restaurants, more room to party in the lively Belties Lounge, on-site spa services and more. New apartment floor plans with stainless steel appliances, gourmet kitchens and screened-in porches.

All this with newly adjusted pricing, for an extraordinary value. Plus a fabulous location and a plan for the future. Move in now, or later...we'll help you plan.

Rediscover what Galloway Ridge retirement lifestyle is all about.

Call us at (919) 545-2647 or (888) 763-9600.

3000 GALLOWAY RIDGE • PITTSBORO, NC 27312 • WWW.GALLOWAYRIDGE.COM
OPEN MONDAY THROUGH FRIDAY, SATURDAY 10 A.M.-2 P.M. AND SUNDAY 1-4 P.M.



John P. Boineau M.D. '59 of St. Louis, on Nov. 7, 2011. A longtime cardiologist and professor for the School of Medicine at Washington University, he is survived by his wife, Wanda; two sons; three daughters, including **Robin Elizabeth Boineau** HS '96; two brothers; and four grandchildren.

Arthur C. Chandler Jr. M.D. '59 of Durham, on Dec. 25, 2011. He was Duke's public-address announcer for 40 years of basketball games beginning in 1970, at which time Cameron Indoor Stadium was called Duke Indoor Stadium. He was also a colonel in the Army Reserve and a professor emeritus of comprehensive ophthalmology at UNC-CH. He is survived by his wife, Sarah; three sons; a daughter; a stepdaughter; and 10 grandchildren.

Joseph A. DeAngelis Sr. B.S.M.E. '59 of Ocean View, Del., on Jan. 17, 2012. He received his degree in mechanical engineering. He enjoyed boating later in life, held a captain's and master's license, and was a member of the Paulsboro Road Rods, a hot-rod enthusiasts' group. He is survived by his wife, Lois; two sons; a sister; and six grandchildren.

Joseph W. Dowless '59 of Charlotte on Nov. 30, 2011. He served in the 82nd Airborne Division of the Army. He worked in sales and management for American Scientific Products. He was a volunteer for Habitat for Humanity, Charlotte Rescue Room, and his church. He is survived by his wife, Carolyn; two daughters; a son; and four grandchildren.

Charles P. Hayes Jr. M.D. '59 of Jacksonville, Fla., on Dec. 10, 2011. He had a practice in nephrology at Riverside Clinic in Jacksonville. He was a driving force behind the establishment of north Florida's first free-standing kidney dialysis clinic and helped develop renal care in Florida. He also served as chair of the Medical Advisory Board for Northeast Florida. He is survived by his wife, **Jo Moore Smithwick Hayes** B.S.N. '58; a daughter; a son; a sister; and two grandchildren.

M. Eleanor Craig Snellings Ph.D. '59 of Richmond, Va., on Dec. 7, 2011. She was an associate professor emerita of economics at Virginia Commonwealth University, where she taught from 1966 to 1992, and an economist in the research department at the Federal Reserve Bank of Richmond. She is survived by a son, a brother, and two granddaughters.

Bruce W. Soule '59 of Frankfort, Mich., on Dec. 8, 2011.

Elizabeth "Betty Ann" Marston Atkinson B.S.N. '60 of Fort Walton Beach, Fla., on Dec. 22, 2011. She was a registered nurse for more than 20 years and held several positions, including director of cardiac rehab and Senior Friends at HCA Twin Cities Hospital. She is survived by three daughters and seven grandchildren.

Willis Hines Jr. '60 of Newport, N.C., and Boone, N.C., on May 16, 2010. He is survived by his wife, Barbara; four daughters; a son; a brother; and 13 grandchildren.

Abraham D. Kriegel A.M. '60, Ph.D. '65, of Memphis, Tenn., on Jan. 18, 2012. He was a chair of the history department he helped build at the University of Memphis. He also helped develop the Marcus Orr Center for the Humanities and the Bornblum Judaic Studies Program. He won a Guggenheim Fellowship and was published in sev-

eral literary magazines. He is survived by his wife, Reva; two daughters, including **Miriam Suzanne Kriegel** '94; a brother; a grandson; and two step-grandchildren.

Thomas J. Banton Jr. M.D. '61 of St. Louis, on Dec. 25, 2011. He was an orthopaedic surgeon and served on the staff of DePaul and Christian hospitals. He was also an associate with the Northland Orthopedic Group in St. Louis. He is survived by his wife, Martha; a daughter; a son; and five grandchildren.

Charles E. "Nick" Carter M.D. '62 of Santa Rosa, Calif., on Jan. 28, 2012. He served in the Navy and was a member of the Naval Officer Medical Corps, the American Medical Association, the Sonoma County Medical Association, the American Board of Radiology, and the Sonoma County Trailblazers, an equestrian group in California. He is survived by his former wife, **Joan M. Carter-Jones** P.T. Cert. '60; a daughter; two sons; a sister; and four grandchildren.

Gretchen Gimbel Durham '62, of Durham, on Jan. 11, 2012. She was a supervisor with the Centers for Disease Control and Prevention's AIDS Hotline and cofounder of the AIDS Community Residence Association. She founded a Teen/AIDS hotline in 1994 and earned multiple awards, including from UNC, the state, and the *Independent Weekly*. She is survived by two sons, a brother, and three grandchildren.

Joseph H. Enright '62 of Riverdale, N.Y., on Nov. 29, 2011. He taught English for the Peace

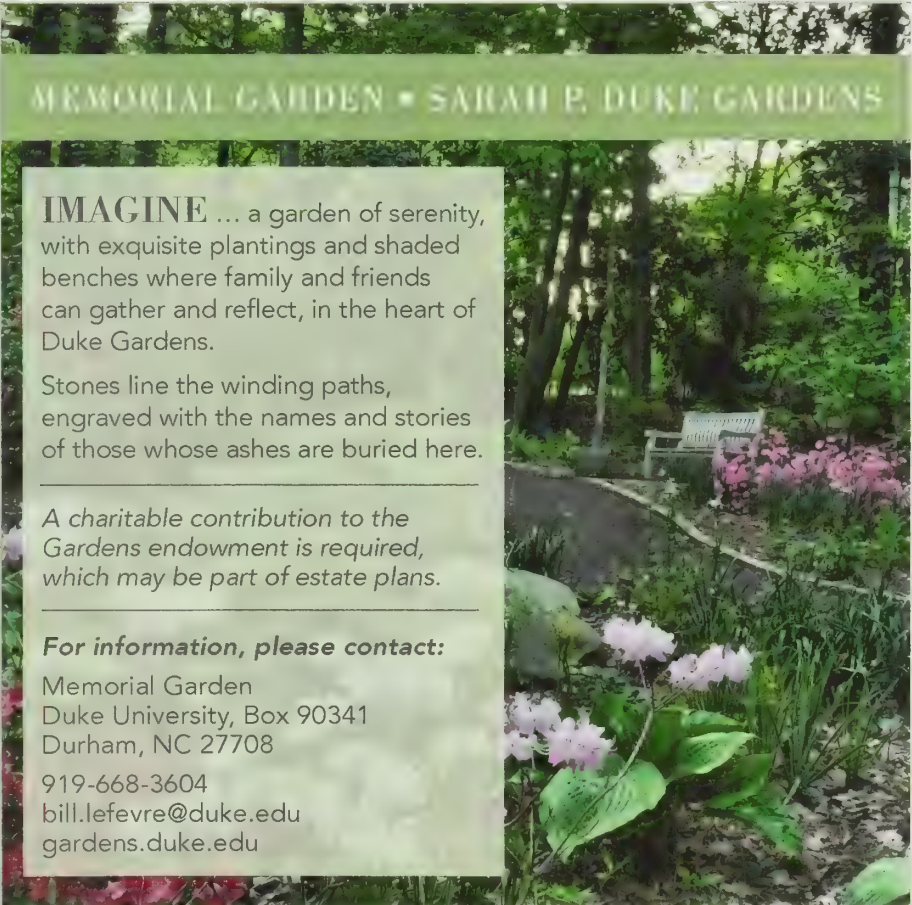
Corps in Ecuador. He was professor and director of career services at Lehman College. He is survived by his wife, Pilar; a son; a daughter; and a grandson.

Douglas J. Duskin '63 of Camden, S.C., on Jan. 9, 2012. He served in the Navy on the destroyers of the U.S. Pacific Fleet and the coastal patrol boats in the Mekong Delta during the Vietnam War and attained the rank of lieutenant commander while in the Navy Reserve. He was a geologist who explored and developed the Ridgeway gold deposit in Ridgeway, S.C., and developed and produced the Diavik Diamond Mine in Yellowknife, Canada. He is survived by his wife, Minna; a daughter; a son; his mother; three sisters; three brothers; and four grandchildren.

Jerry L. Jones M.D. '63 of Modesto, Calif., on Jan. 11, 2012. He was a captain in the Air Force and served two years in the Vietnam War. He was an Eagle Scout and the subject of two medical studies about lung cancer at Stanford University School of Medicine. He is survived by his wife, Martha; two sons; a daughter; and five grandchildren.

Marion P. "Spike" Spigener Jr. '63 of New Haven, Conn., on Dec. 8, 2011. He was director of advertising and manager of international and domestic marketing support with Sikorsky Aircraft until his retirement in 2001, at which time he became a volunteer with Yale-New Haven Hospital. He is survived by a sister.

Freeman A. Berne M.D. '64 of Sheldon, S.C., on Jan. 22, 2012. He served in the Air Force after graduating from Duke and later founded the Lumberton Radiological Associates in Lumberton,



MEMORIAL GARDEN • SARAH P. DUKE GARDENS

IMAGINE ... a garden of serenity, with exquisite plantings and shaded benches where family and friends can gather and reflect, in the heart of Duke Gardens.

Stones line the winding paths, engraved with the names and stories of those whose ashes are buried here.

A charitable contribution to the Gardens endowment is required, which may be part of estate plans.

For information, please contact:
 Memorial Garden
 Duke University, Box 90341
 Durham, NC 27708
 919-668-3604
 bill.lefevre@duke.edu
 gardens.duke.edu

N.C. He is survived by his wife, Billie Jean; three sons; two sisters; and five grandchildren.

David M. Goodner '64, M.D. '68 of Chestnut Hill, Pa., on Jan. 25, 2012. A gynecologist and obstetrician for more than 30 years, he was president of the Obstetrics Society of Philadelphia and wrote many articles for various medical journals. He served in the Army Medical Corps in Korea and cofounded the Susan S. Teeter Award at Princeton for outstanding senior-year swimmers. He is survived by a daughter; a son, **Blake B. Goodner** '96; a daughter-in-law, **Lois Schragner Goodner** '01; two brothers; and three grandchildren.

Lois M. Nyberg Hinds '64 of Oak Park, Ill., on March 7, 2011. She is survived by her husband, Alan; a son; a daughter; a sister; and a granddaughter.

Francis F. "Mel" Manning M.H.A. '64 of New Iberia, La., on Dec. 13, 2011. He served in the Army in South Korea. He was CEO of Academic Physicians and Surgeons at the Medical College of Hampton Roads in Virginia. He was published in national medical journals and received the Harry J. Harwick Award for his contributions to health care. Survivors include his wife, Mary Jo; two daughters; two stepdaughters; and three granddaughters.

John Adam Shartle Jr. '64 of Wilmington, N.C., on July 17, 2011. He majored in Spanish and was a member of Lambda Chi Alpha while at Duke. He is survived by his wife, Sheila.

Robert A. Maxwell M.A.T. '65 of Rocky Mount, N.C., on Dec. 15, 2011. He worked for 30 years at the Seaboard Coast Line Railroad as an administrator and a locomotive engineer. He is survived by his wife, Patricia, and two sons.

Fred W. Hill Ed.D. '66 of Kernersville, N.C., on Feb. 4, 2012. He was a minister for 50 years and a member of Brower's Memorial Wesleyan Church in Asheboro, N.C. He was a professor at High Point University in High Point, N.C., for 16 years. He is survived by his wife, Doris; a son; a daughter; two brothers; six grandchildren; and a great-grandson.

Harry E. "Sid" Varney Ed.D. '68 of Columbia, S.C., on Nov. 21, 2011. He was the director at the University of South Carolina-Florence, the USC dean of applied and professional sciences, and the dean of nursing for several years. He received the Order of the Palmetto, South Carolina's highest civilian honor, in 1994. He is survived by his wife, Carmen; two sons; a brother; five grandchildren; and a great-granddaughter.

Linda Howard Muncy '70 of Potomac, Md., on Jan. 30, 2012. She was a Foreign Service officer with the U.S. Department of State for 27 years. She served in Montreal, Bangladesh, South Africa, Yemen, Washington, and Afghanistan. She is survived by her husband, Don; a son; a daughter; her father; and a sister.

Carlos M. Bray A.H.C. '71 of Macon, Ga., on Jan. 14, 2012. He was the first certified physician's assistant in Georgia and worked with the state Department of Corrections for 17 years. He is survived by his wife, Kathy; two sons; two daughters; and five grandchildren.

Roger R. Solomon '71 of Chicago, on April 27, 2011. He is survived by his wife, Jeri, and a sister.

Barbara Gail McCloskey '73 of New Castle, Del., on Jan. 18, 2012. She was a program coordinator at the Boys and Girls Club of America and a psychotherapist. She is survived by her husband, Don; two sons, including **Matthew I. McCloskey** '02; a daughter; a sister; and four grandchildren.

John A. Menefee Ph.D. '74 of Hattiesburg, Miss., on Dec. 8, 2011. He worked for Watson Wyatt Co., an international human-resources consulting firm, where he managed the analysis of global dissemination of compensation and human resource information. He is survived by his wife, Jean; two sons; and two granddaughters.

William A. Graham III M.E. '75 of Durham, on Jan. 11, 2012. He taught business law at N.C. State University as an adjunct professor. He also served on the Selective Service Board and was a member of the Society of the Cincinnati, a historical organization that seeks to preserve the ideals of the American Revolutionary War. He is survived by his wife, Karen; three sons; a daughter; a brother; and two grandchildren.

Benjamin Brunard Blaylock Jr. '77 of Albany, Ga., on Feb. 1, 2012. He served three years in the Air Force and wrote the original EMS Aide's Protocol for Dougherty County in Georgia. He was also past president at Jefferson Street Boys' and Girls' Club and past president of Merry Acres Middle School Parent-Teacher Organization. He is survived by his wife, Brenda; four daughters; four sisters; a brother; and four grandsons.

Wayne K. Ruth M.D. '79 of Alpena, Mich., on Jan. 27, 2012. He was a practicing physician in North and South Carolina before moving to Michigan to work as a pulmonologist and sleep-medicine specialist. He is survived by his wife, Elizabeth; a son; two stepsons; a brother; and a sister.

Susan Mazzola Ganz '80 of Boston, on Jan. 10, 2012. After several years in private practice, she did pro bono legal work for CASA, an organization that advocated for abused and neglected children. She is survived by her husband, Bryan; three daughters; and two brothers, including **Domenic E. Mazzola** B.S.M.E. '83.

John L. Goff Jr. Ed.D. '80 of Gastonia, N.C., on Dec. 7, 2011. He served in the Navy Reserve for two years. He was assistant superintendent for special services at Gardner Park Elementary School. He was elected Distinguished President of the Noon Optimist Club of Gastonia and volunteered for Habitat for Humanity and the United Way. Survivors include a son, a daughter, a brother, two sisters, four grandchildren, and two great-grandchildren.

Stephen B. Rhoades M.Div. '80 of Washington, W.Va., on Oct. 26, 2011. He was a United Methodist pastor in West Virginia for nearly 40 years. He is survived by his wife, Joanna; five daughters; a son; six grandchildren; and a great-grandchild.

Jennifer Hope Crabb '82 of Elk Grove, Calif., on Dec. 11, 2011. She worked with Weintraub

Genshlea & Sproul in Sacramento, Calif., as assistant general counsel of Dillingham Construction, and general counsel for Raley's Supermarkets. She is survived by her husband, Tony; two daughters; a son; her father, **Richard B. Crabb** '56; her mother; a sister, **Mary Wendell Crabb** '88; two brothers, including **Colin S. Crabb** '83; and a sister-in-law, **Mika Yoshino** B.S.E. '83.

Douglas J. Wagenaar A.M. '82, Ph.D. '85 of Los Angeles, on Oct. 18, 2011. He was an assistant professor of radiology at Harvard Medical School, as well as a senior research scientist at Siemens Medical Solutions in Chicago. He was also director of research at Gamma Medica in Los Angeles, where he practiced molecular breast-imaging for women. He is survived by his wife, Marty; a daughter; a son; his mother; and two brothers.

Gray W. Bennett '83 of Eaton, Ohio, on March 4, 2012. He was the third generation to practice and operate Bennett Law Offices, and owned and operated Gray's Inn Dairy Farm. He is survived by his wife, Debbie; three sons; a daughter; his mother; three sisters, including **Sarah Louise Bennett** '88; and a brother-in-law, **John Frederick Heuser** '88.

George S.E. Aitken HS '84, HS '88 of Durham, on Feb. 13, 2012. He was a fellow of the American Academy of Orthopaedic Surgeons, a member of the Piedmont Orthopedic Society, and an examiner for the American Board of Orthopaedic Surgery. He established the first outreach program for the Duke Division of Orthopaedic Surgery and Duke Private Diagnostic Clinic by starting Duke Orthopaedics of Person County. Survivors include his wife, **Martha Catherine Sizemore** B.S.N. '79, and two sons.

Patricia Woodward Partin Ed.D. '84 of Shelby, N.C., on Jan. 12, 2012. She was a teacher, school counselor, and college professor. She taught in the graduate counselor-education program at North Dakota State University and was active in state and national counseling organizations. She is survived by a sister, two nephews, and a niece.

Colin A. Rankine B.S.E.E. '85 of Ridgefield, Conn., on Dec. 11, 2011. He worked with IBM for 12 years as a technical marketer and consultant. He held senior management positions with Giga Information Group and Forrester Research, where he served as vice president of the computing infrastructures group. He is survived by his wife, Dawn; a son; two daughters; and two sisters.

Lisa Gershowitz Flynn '88 of New York, on Nov. 1, 2011. She worked at Simpson Thacher & Bartlett and at Merrill Lynch before becoming general counsel for Ipreeo, an execution software and market intelligence company for investment banks and corporations. She is survived by her husband, John; a son; a daughter; her parents; and a brother.

Kenneth E. Lewis B.H.S. '89, M.H.S. '95 of High Point, N.C., on Jan. 9, 2012. He was a physician's assistant at Duke University Medical Center, Baptist Hospital, FirstHealth Moore Regional Hospital, and Moses Cone Hospital. He is survived by a brother.

Charles C. "Chris" Pressley '89 of Roanoke, Va., on Jan. 29, 2012. He was a banker in New

York before returning to school to study medicine and work with ACV Inc. He is survived by his wife, Ami; three daughters; his mother; his father; his stepparents; and a sister.

Larsen Chase Gregory '90 of Atlanta, on Jan. 22, 2012. She worked at Trust Company Bank and was a provisional member of the Junior League of Atlanta. She previously worked for the American Red Cross in Baltimore. She created, wrote, and published INK, the monthly newsletter for INVESCO/AMVESCAP in Atlanta. She is survived by her mother, **Meriel Mitchell Gregory** '64, and her brother.

Elena Lynn Lawrence '90 of Fort Collins, Colo., on Dec. 15, 2011. After receiving a law degree from the University of Virginia, she worked in Denver for the Securities and Exchange Commission. After being diagnosed with cancer, she sought to help other victims by acting as a peer mentor to struggling women. She is survived by her mother and her two brothers, including **R. Stephen Lawrence** '92.

Philip T.L. Conrad M.H.S. '96 of San Diego, on Nov. 15, 2011. He was an orthopaedic physician assistant and swim coach. He is survived by his wife, Sally; a son; a daughter; and two brothers.

Charles R. Harris '96 of Charlotte, on Jan. 1, 2012. He majored in English. He is survived by his father, **C. Marcus Harris** '65, J.D. '72; his mother; his aunt, **Ann L. Harris Matney** '74; his uncle, **Thomas A. Harris** '68, J.D. '71; and his grandmother, **Margaret Adams Harris** LL.B. '40.

Adam J. Horowitz '01 of West Caldwell, N.J., on Jan. 24, 2011.

Robert E. Kinder '08 of Raleigh, on Jan. 1, 2012. He is survived by his wife, Melissa.

Abhinav Kapur B.S.E. '09 of Prospect, Ky. He was a third-year medical student at the Pritzker School of Medicine at the University of Chicago. He had been involved in global health initiatives since his time at Duke and most recently was elected to the New Life Volunteering Society Free Health Clinic executive board. He is survived by his parents.

Matthew S. Hanger '11 of Richmond, Va., on Jan. 30, 2012. He was a business analyst at Capital One Financial, having graduated with a major in economics. He was ranked by the U.S. Tennis Association in the top 25 of the Middle States Region and the top 500 nationally. He is survived by his mother, **Luanne E. Thorndyke** '79; his father, **John R. Hanger** '79; a sister; and his grandmother.

DAA BOARD

Robert T. Harper '76, J.D. '79 of Pittsburgh, on Feb. 27, 2012. He was a lawyer with Klett Rooney Lieber & Shorling and served on the board of directors and as vice president for administration, co-chair of the corporate practice group, and chair of the health-law practice group. When Klett Rooney merged with Buchanan & Ingersoll in 2006, Harper served as co-chair of the health-care section. He represented both profit and nonprofit entities throughout his career, aiding in acquisitions and corporate matters. He also advised corporations and boards in sales, financing, and reorganizations. He was listed in *The Best Lawyers in America* for corporate law and health law for 17 consecutive years and frequently spoke for the American Bar Association, the National Institute on Mergers and Acquisitions, and the Pennsylvania Bar Institute. He was named Pittsburgh Health Care Lawyer of the Year by *Best Lawyers* in 2010 and Pittsburgh Corporate Lawyer of the Year in 2012. At Duke, he graduated summa cum laude in 1976 before receiving his J.D. from the law school three years later. He was president of the Duke Alumni Association (1996-97) and a trustee (1997-98), as well as chair of the libraries board. He is survived by his wife, Susan; two daughters, including **Elizabeth Lane Harper** '06; and his mother.

Classifieds

Looking for ways to **reach an exclusive clientele?** Advertise with *Duke Magazine* and access more than 120,000 potential clients in the Duke family. For rates, requirements, deadlines, and all other questions, check out www.dukemagazine.duke.edu, or e-mail us at dukemag@duke.edu.

ACCOMMODATIONS



LAKE JAMES, NORTH CAROLINA. Custom built luxury lakefront home on the shores of pristine Lake James in the foothills of the Blue Ridge. See www.vrbo.com/71379 for vacation rental information or Polly at www.lakejamesrealestate.com to schedule a showing to make this home your own!

Paris: Marais. Luxury rental in center of Paris. Close proximity Picasso Museum, Centre Pompidou and

other historical sites as well as gourmet shops of Rue de Bretagne. See owner's website at www.parischapon.com.

PARIS: Stunning Left Bank apartment near Musée d'Orsay. Serene, luminous, elegant, sleeps four. Michael Crowley, (626) 395-7877, davenportdad@earthlink.net

Paris, SW France, Provence: Comfortable apartments, homes, chateaux. FHR@earthlink.net; (503) 219-9190; www.FrenchHomeRentals.com

England, London, Theatre District: Spacious one bedroom. Two adults. (415) 933-9903.

FOR SALE

CHAPEL HILL, NC: Country estate on 55 wooded acres with mead-

ows, trails and ponds. Two miles from town. Architect designed one-story modern house 3300 sq/ft plus large barn. Contact David. Warren@duke.edu

INNER BANKS OF NC: Classic, cedar shake, custom home in Cypress Landing. Set high on a knoll overlooking the signature hole of a 4-star rated golf course with sweeping views of Chocowinity Bay. Amenities include a nautical-styled Bay Club, 220 slip marina, community pools, tennis courts and fitness center. See 109 Providence Place at cypresslandingrealty.com. Contact Margit Donaldson at 252-945-6306.

Architect designed 3br 4b home with attached three car carport Sky Valley, GA, 90 miles ne Atlanta, 10 miles to Highlands, NC. 3600 ft elevation, view of golf course, Rabun Bald, from all rooms and two porches. Finished cedar inside and out. Bedrooms with built in

drawers, large closets, walk in storage. Finished \$360,000, 10% deduction Duke Alum. Picture on request. (352) 732 5180/ cell (352) 208 1035

MISCELLANEOUS

www.DukeCheck.com News "they" would be happy you did not see. "It drove some people absolutely crazy that the information (about Kunshan) was being leaked." *USA Today* / campus 12-17-2011

Your Manager in Germany! Duke MBA; Held senior executive positions (President, General Manager, CFO) in manufacturing and distribution; Currently managing a company in southeastern part of the US; Dual Citizenship (USA, German Native); **Looking for a new opportunity in Germany;** Reply to Germany8453@aol.com

Retro

Royal Treatment

Duke put on its best for Princess Irene's visit. | By Valerie Gillispie

With an architectural style reminiscent of European castles, Duke's West Campus looks like a place where you might find a princess. And on a Sunday in January 1967, it was.

That day, Duke was visited by Her Royal Highness Princess Irene of Greece and Denmark, the twenty-four-year-old daughter of the late King Paul of Greece and younger sister of King Constantine II, the last of Greece's kings. An accomplished concert pianist, she had come to America as part of a six-week tour of the U.S., sponsored by the Lincoln Center for the Performing Arts in New York. But it was her friendship with two of Duke's most steadfast supporters, Mary Duke Biddle Trent Semans '39, Hon. '83 and James Semans, Hon. '99, that brought her to North Carolina.

The Semanses had met Princess Irene in Greece in 1965 at a dinner party at the home of Gina Bachauer, a well-known concert pianist who mentored the princess on piano. Bachauer had toured throughout the U.S., including visits to Duke's Department of Music, and was well-acquainted with the Semanses, who were active supporters of music performance and education. The princess shared their interests in music education, and the couple remained friendly with both women.

Princess Irene arrived in Winston-Salem on Saturday, January 28, 1967, where she toured the North Carolina School of the Arts with Mary Semans. From there, the entourage traveled to Durham. That evening, Duke senior John Ruggero '67 and music professor Paul Earls, among other musicians, performed a recital for the royal party at Pinecrest, the Semanses' estate in Durham.

On Sunday, the princess toured the Duke campus, with stops at Duke Chapel and carillon tower and the library's Biddle Rare Book Room, where she examined a collection of Greek manuscripts. A luncheon was held in the Old Trinity Room of the West Union building. Attendees included Duke administrators, North Carolina Gov. Dan K. Moore, U.S. Sen. Sam Ervin, Durham Mayor Wense Grabarek, and a number of prominent members of the Durham Greek community. The *Durham Herald* reported, "Several Greek dishes were served along with an entrée of Breast of Chicken Smithfield with supreme sauce. The princess, a vegetarian, was served a special egg dish." Following the luncheon, the princess met with more than 200 residents

of Greek descent and was served homemade Greek desserts by women of Durham's Greek community.

The most intimate brush with royalty, however, was reserved for two Duke students. Steve Sapp '68 and John Alden '67 were selected to serve as chauffeurs for the royal party, ushering the princess and her traveling companions from Winston-Salem and around campus.

The *Durham Sun* reported that the students "stated that they did not know why they were chosen for this honor, but both agreed that the experience had been most enjoyable and they were impressed by Princess Irene's informality and charm." One remarked that he was impressed the princess introduced herself to him at the Winston-Salem airport.

Mary Semans—a member of Duke's royal family in her own right—came away with a similar impression of Princess Irene's warmth and modesty. Semans described her in the *Durham Sun* as "so gracious and so informal—she just couldn't be easier to have around."

Though brief, the princess' visit stands out as an opportunity for Duke to highlight

The students "were impressed by Princess Irene's informality and charm."

THEN&NOW COMMENCEMENT

The General Assembly of North Carolina enacts a revised charter for **Normal College** (the predecessor of Trinity College and Duke University) that allows it "to grant such degrees and marks of honors as are given by Colleges and Universities generally." The first graduating class to earn college degrees to-

taled two: brothers Dougan and Lemuel Johnson of Trinity, North Carolina.

1852

In the early days, Trinity College marked commencement with a party. Here, President John F. Crowell is pictured on an invitation to the 1888 commencement party.



1931

Class of 1931 marches toward an unfinished Duke Chapel. Commencement moved from Page Auditorium to the chapel in 1932.



Regal: Princess Irene, holding purse, in front of Duke Chapel with a Duke-Durham contingent that included Mary Semans, second from left

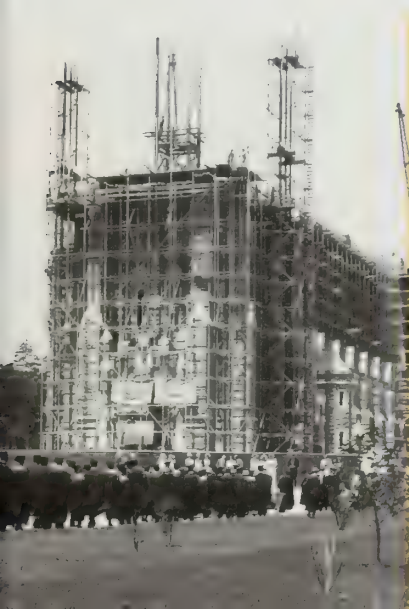
Duke University Archives

its treasures and its ambitions to be recognized as a global university. It also brought a moment of glamour to a rapidly changing campus, where students were increasingly ac-

tive in Vietnam War protests and the civil rights movement. Duke was a place of debate and discussion—and often disagreement. But for one sunny Sunday afternoon

forty-five years ago, Duke and Durham were fit for a princess.

Gillispie is Duke's university archivist.



On sunny days, commencement has been held in the **football stadium**, one of many venues used for commencement over the years.

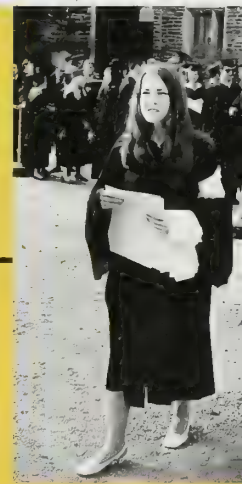
1939



Some students wear white armbands during commencement to protest militarization and discrimination in the wake of the U.S. invasion of Cambodia and the shootings at Kent State University.

1970

Duke University Archives



Devil's Own

In its heyday in the late 1930s, the soapy radio serial *The American Family Robinson* aired on more than 300 U.S. radio stations. But as listeners followed the travails of Luke Robinson, a small-town newspaper editor, and his eccentric family, they were getting a heavy dose of political propaganda. Created in 1934 by the National Industrial Council—a front for the powerful National Association of Manufacturers—the program interlaced its plot with frequent screeds against New Deal policies and praise for unfettered capitalism. A second set of episodes was made in

1940, chronicling the U.S.'s preparations for World War II.

Few of the original sixteen-inch discs, which were made from an experimental type of acetate that degrades quickly, have survived. Randy Riddle, a technology consultant at Duke, collected fourteen of the rare discs, comprising forty episodes, and donated them (along with other recordings) to the David M. Rubenstein Rare Book & Manuscript Library, making it the only library in the country with a set of the discs.

LISTEN ◀ dukemagazine.duke.edu



Rare record: Acetate discs from the Robinson collection



2012 HOMECOMING WEEKEND

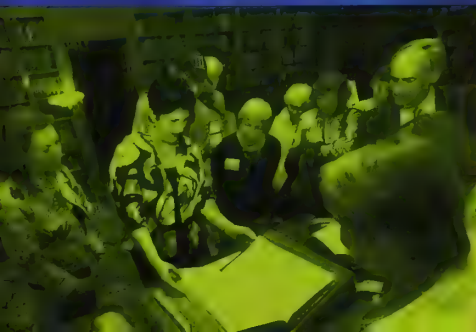
SEPTEMBER 21 - 23

Autumn is a great time for alumni of all ages, as well as students, to engage, connect, and celebrate on campus. This year's Homecoming weekend includes the Duke vs. Memphis football game, the President's Dance, affinity group gatherings, and more!

START PLANNING YOUR AFFINITY GROUP REUNION NOW by contacting Marion Kennedy '09, DAA program coordinator for affinity and volunteer programs. Marion.Kennedy@duke.edu.

Duke
ALUMNI ASSOCIATION

www.homecoming.dukealumni.com



DUKE

DUKE UNIVERSITY, BOX 90572
DURHAM, NORTH CAROLINA 27708-0572

NONPROFIT ORG.
U.S. Postage
PAID
PPCO

C-00
PERIODICALS
PERKINS LIBRARY
BOX 90180



My Duke, Your Duke, Our Duke

Whether you're a Duke alum, student, parent, or friend, you have a stake in the university's future.

Year after year, your Annual Fund gifts help provide the resources that define a Duke educational experience. These contributions support financial aid grants, help sustain a stellar faculty, and fund innovative opportunities for students to connect the classroom with the real world.

Meet Andrew Rotolo T'14...

The summer following his freshman year, Andrew participated in DukeEngage in Kenya. DukeEngage provides funding for undergraduates to pursue an immersive summer of service in partnership with a U.S. or international community. During Andrew's 10-week program, he put his international comparative studies major to work at an organization that serves orphaned and at-risk youth.

His DukeEngage experience sparked a passion for Kenya—and gave him a chance to learn Swahili, a critical language for ROTC cadets like Andrew. This summer, he is returning to Africa, where he will live with a host family and take courses on historical, political, and social issues of Kenya. He will also do an internship with Carolina for Kibera, an NGO that fights poverty and promotes youth leadership and ethnic and gender cooperation.

"I'm grateful that Duke Annual Fund supporters help make programs like DukeEngage possible," said Andrew. "The experience not only gave me a chance to make a difference, but also helped validate my decision to pursue a career addressing global social problems. The experience was life-changing."

As the June 30 close of the fiscal year approaches, please take this opportunity to offer your support and help provide the resources that ensure a distinctive Duke experience for all of our students.

Make your Annual Fund gift
by June 30:



BY PHONE

(919) 684-2338



BY MAIL

Duke Annual Fund
Box 90581
Durham, NC 27708-0581



ONLINE

giving.Duke.edu/AFJune30

Connect with Duke
and Fellow Alumni:



EXPLORE

www.dukealumni.com



DUKE
ANNUAL
FUND

The Power of Light 28

Traveling into History 36

Athletes Dig Deep in Ethiopia 42

DUKE

AUGUST 2012

MAGAZINE

RECEIVED
JUL 25 2012
DUKE UNIVERSITY LIB.

Nyuol's Gift

Building the school he never had 22



Cecil and Jean Spearman

Leaving a Legacy at Duke

DUKE UNIVERSITY
GIFT PLANNING

When Cecil Spearman, 73, talks tennis, expect to be inspired and enlightened. He's excited about the sport and passionate about the fitness industry.

Cecil is CEO of Spearman Clubs, which owns and operates premier tennis and fitness clubs in southern California. His wife, Jean, has helped develop the company, and their three sons are involved in making Spearman Clubs a leading, multi-club company.

Cecil remembers fondly playing on the Duke tennis team and enjoying intramural sports through the Sigma Chi fraternity. And his affection for Duke has not diminished. "I return to Duke often," he said. "I attend at least one basketball game each year, and I make it to all of our class reunions."

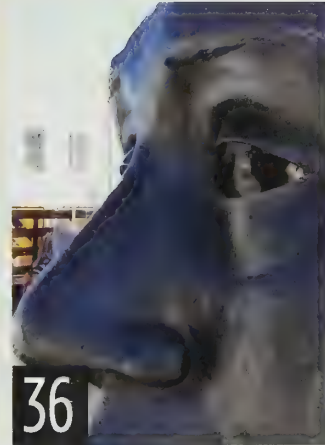
In March, Duke Athletics dedicated a court in Ambler Tennis Stadium to Cecil. "I have many things for which I am proud, but I have never been more proud than when I saw that the name of court one at Duke University is now Spearman Court. Jean and I are so pleased to be in a position to support Duke and will continue to be big supporters of Duke tennis."

To that end, Cecil and Jean, members of the Duke Heritage Society and the James B. Duke Society, have established a bequest for Duke that, when added to their lifetime gifts, will fully endow the Spearman Tennis Scholarship. "I feel that I owe Duke for the great education I received and for the confidence Duke gave me to be able to succeed as an entrepreneur in corporate America. My time on the Duke tennis team was a very meaningful experience that led me to create this scholarship."

To explore ways you can support the Duke program that is most meaningful to you, visit www.giving.duke.edu/giftplanning or contact:

Duke University Office of Gift Planning
Box 90600
Durham, North Carolina 27708
Phone (919) 681-0464
Fax (919) 684-9731
Email gift.planning@dev.duke.edu

FEATURES



COVER

Brick by Brick

By Cherry Crayton

As a boy, Nyuol Tong '14 wanted nothing more than to go to school. Now his village in South Sudan finally will have a school—because he built it.

Catching Rays

By Marla Vacek Broadfoot

Humans, like most plants and animals, are natural sun seekers. New research is illuminating the biological need of all living things to soak up daylight, and it may help us get more from our time in the sun.

Present History

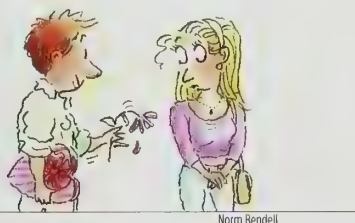
By Elissa Lerner

A multiracial group of Duke students travel the civil rights trail to learn about a history that hasn't entirely vanished into the past.

COVER: Nyuol Tong '14 is working to bring the gift of education to his native South Sudan. Photography by Megan Morr

DEPARTMENTS

4 Forum



7 THE Quad

Why professors are ditching the lecture; plus, reaffirming same-sex benefits and a gift that honors Duke's "First Five"

17 Ideas

Daniel Richter speaks out for soil

20 Observer

Stalking the night at the Duke Marine Lab

42 Sports

Lending a (large) hand in Ethiopia

45 Muse

A collector shares his treasures—again



49 ForeverDuke

DAA activities and connections

53 ClassNotes

69 Classifieds

70 Retro

When Duke's president outsmarted the Smithsonian

72 Devil'sOwn

Big fun with miniatures







FULLFRAME

Garden party: Local rock band The Old Ceremony performs on the lawn outside the Doris Duke Center as part of Duke Performances' "Music in the Gardens" summer concert series. Photo by Jon Gardiner.

EDITOR:

Robert J. Bliwise A.M. '88

MANAGING EDITOR:

Michael Penn

ASSOCIATE EDITOR:

Bridget Booher '82, A.M. '92

CLAY FELKER MAGAZINE FELLOW:

Elissa Lerner '08

PUBLISHER:

Sterly L. Wilder '83, Associate Vice President,
Alumni Affairs

STUDENT INTERNS:

Dan Altman '15

Tim Lerow '15

Michael Schreiner '15

DESIGN CONSULTANT:

Lacey Chylack, phase5creative inc.

PRINTER:

Progress Printing

OFFICERS, DUKE ALUMNI ASSOCIATION:

Jeff Howard '76, president

Sterly L. Wilder '83, secretary-treasurer

EDITORIAL ADVISORY BOARD:

Peter Applebome '71, chair

Sarah Hardesty Bray '72; James Burnett '98

William Cohan '81; Jennifer Farmer '96

Jerrold K. Footlick; Robbyn Footlick '85

Edward M. Gomez '79; Devin Gordon '98

Kerry E. Hannon '82; John Harwood '78

Dave Karger '95; Sara Lipka '01; Julia Livshin '96

Valerie A. May '77; Susannah Meadows '95

N. Page Murray III '85; Will Pearson '01

Lauren Porcaro '96; Shaun Raviv '01

Jim Rosenfield '81; Jon Scher '84

Lesley Jane Seymour '78; Elizabeth Spiers '99

Greg Veis '03; James O. Wilson '74

Robert J. Bliwise A.M. '88, secretary

Clay Felker '51, founding chair

DUKE MAGAZINE

Box 90572, Durham, N.C. 27708

PHONE: (919) 684-5114; FAX: (919) 681-1659

E-MAIL: dukemag@duke.edu

ADDRESS CHANGES:

Alumni Records, Box 90581, Durham, N.C. 27708

or e-mail: bluedevil@duke.edu

© 2012 Duke University

Published bimonthly by the Duke Alumni Association



Forum

UNDER THE GARGOYLES

Over the years, *Duke Magazine* has covered expressions of student activism, including a newer form of activism that is incremental, smart, and sensitive to institutional mechanisms. A striking example is the Students Against Sweatshops movement, captured in a 1998 story, "Giving Voice to the Campus Conscience."

Students Against Sweatshops is a reference point, and a rallying point, for the Coalition for a Conflict-Free Duke. The student-led coalition supports conflict-mineral-conscious shareholder resolutions for companies in which the university invests. Conflict minerals are mined in the midst of violence, notably in the Democratic Republic of the Congo.

Coalition students observe that the Congo has suffered fifteen years of violence—a violence fueled in part by the illicit trade involving minerals widely used in consumer technology.

"It's high time that we're talking about investment responsibility at Duke," coalition chair Stefani Jones, a rising junior, told *The Chronicle* this past spring. "There's something wrong," she added, "when we don't know if our cell phones are funding the deadliest war since World War II." Jones first learned about the issue last year while interning at the Enough Project, which works to end genocide and crimes against humanity.

Over the past year, the coalition met with groups around campus, ranging from the student government to the president's Advisory Committee on Investment Responsibility, or ACIR. ACIR, composed of faculty members, students, and administrators, passed along an affirming recommendation to President Richard H. Brodhead.

Brodhead endorsed the recommendation, and in June, the executive committee of the board of trustees followed suit: It approved a resolution that authorizes DUMAC, Duke's investment arm, to adopt a proxy voting guideline for investments in which the university has direct ownership. The guideline stipulates that Duke vote in favor of "well-written and reasonable shareholder resolutions that ask companies for reports on their policies and efforts regarding their avoidance of conflict minerals and conflict mineral derivatives."

Jones noted that "it's easy to assume that student actions can't really have an im-

pact." As the magazine's old story on Students Against Sweatshops pointed out, there are threads that "tie people together unexpectedly," including a felt imperative to change a university for the better and, by changing it, "to take the first step in changing the world."

—Robert J. Bliwise, editor



Voices heard: Students protesting sweatshop labor in 1998 won the attention of then-President Nannerl O. Keohane and helped change Duke's practices.

LETTERS

Short and Sweet

Pertinent, significant, relevant, and important articles [May-June 2012]. No fluff. Genuine quality! Thanks.

*Peter R. Mitchell '58
Rochester, New York*

Tense Climate

I am outraged yet again that *Duke Magazine* has seen fit to publish a letter to the editor maligning the Nicholas School of the Environment and its scientists over the issue of climate change [Forum, May-June 2012].

Though there is ample opportunity to critique the school, it is not over the recent study on forest ecosystem migration and response to rapidly changing climate zones. Not only does *Duke Magazine* publish a letter that misinterprets the research, it allows the word “hoax” to be juxtaposed to climate change.

Yet again the magazine allows misinformed and, frankly, poorly educated alumni to voice their opinion, as if assuming that if we see it enough in print, we will be convinced that what we see and feel outside our window will be any different or [it will] counter the mountains of scientific evidence showing us our horrendous impacts to the planet.

*Marc Dreyfuss M.E.M. '90
Durham*

Immigration Nation

Condoleezza Rice is quoted as saying [The Quad, May-June 2012], “I don’t know when immigrants became the enemy.” This quote unfortunately conflates legal and illegal immigration. Legal immigrants are not considered the enemy by anyone. For illegal immigrants, “enemy” is probably too strong a word, but they clearly became a problem as millions entered the U.S. from Mexico without documents.

To answer Rice’s question: It was when the number of illegals got so large that they usurped the right of Congress to determine how many immigrants should enter the U.S. and from which country; when citizens saw the unfairness of the illegals living in this country while so many who have applied to immigrate

legally have languished in their home countries for years waiting for a visa with no end in sight; when the taxpayers of this country had to pay billions of dollars, badly needed elsewhere, to try to maintain the proper securing of their borders, with the legitimate right of knowing who’s here; and when the illegals took jobs away from U.S. citizens. That’s when!

*Richard N. Bergesen '59
West Chester, Pennsylvania*

What Was in It for You?

I rarely take the time to read an entire article in a magazine, but just finished reading the cover article [“What’s in It for Me?” May-June 2012]. You should find a way to capture the brilliant combination of the cover art and the opening to your article, for it was more successful than any advertising I have ever seen. The article was interesting and thought-provoking, in particular in reference to my seventeen-year-old son, who constantly (in my mind) needs motivation.

Thank you for being a delightful part of my otherwise trying day.

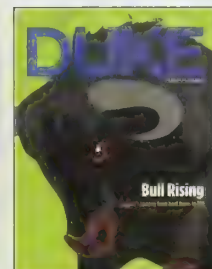
*Barbara T. Isen J.D. '84
Bryn Mawr, Pennsylvania*

The intrepid and admirable editor Robert Bliwise begins his article on our allegedly skewed culture of incentives with, “I really want you, resolute reader, to read this entire story. Yes, that’s you. And it’s really important. So what will it take to make it happen?”

Presuming to speak on behalf of a goodly number of my fellow Half-Century Club survivors, here’s an idea: Print it on white paper.

*Richard Allen '51
Gainesville, Florida*

Robert Bliwise’s article brought memories of my early elementary-school days in a rural North Carolina school when my classmates were given money, nickels



and dimes, for good grades. I suggested to my dad that I’d appreciate similar rewards. He said that I was expected to make good grades without being rewarded with money.

Many years later, while I was teaching at a major university, two graduate students came by my house to take a “spiritual survey.” After several questions, one student asked if I was sure I was going to heaven. I told her I had no guarantee. She then asked, “Why, then, do you love God?” I asked her if she was married. She answered in the negative, so I asked, “Are you looking for an old fellow with a million dollars, who’ll kick the bucket in

The students decided to take their spiritual survey to the next-door neighbor.

—E. REID GILBERT

a couple of months, leaving you his millions?” She said that would be conniving. I answered, “Well, you have just suggested that I connive my love of God in order to receive a heavenly reward. Don’t you think the love of God is its own reward?”

The students decided to take their spiritual survey to the next-door neighbor.

*E. Reid Gilbert '53
Tucson, Arizona*

Accolades for Azenberg

In the Notable section of The Quad [May-June 2012], you mention that Emanuel Azenberg has been teaching at Duke for eighteen years. I am sure he has been important to Duke theater for longer than eighteen years. I took his class in 1985 or 1986, and had the great privilege of assisting with the Reynolds Theater opening of Neil Simon’s *Broadway Bound*. He had such great enthusiasm for his Duke students that he

invited us all to New York and gave us tickets to several Broadway productions. Mann's Tony Award is well deserved, and he is a superb professor, making theater and the skills necessary to make theater happen relevant to all walks of life. I follow some of his teachings even today, and I am sure his name will be

found in the Book of Life.

Melissa Ann Lockhart '87
Orange Park, Florida

Editor's note: Azenberg was an adjunct professor at Duke from 1985 to 2009. We apologize for the error.

UPDATE

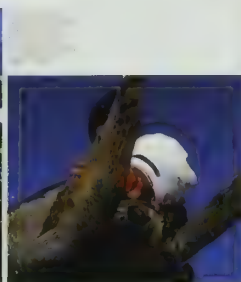


When we last wrote about marine biologist Wallace J. Nichols M.E.M. '92, he was discovering that saving sea turtles in Baja, California, sometimes meant focusing more on humans than turtles ("Conservation Versus Culture," May-June 2001). Describing his conservation program in 2001, he said, "Scientific research wasn't enough. Now what we're doing is a lot of social sorts of things, understanding the economics and policy issues, as well as marine science."

It's a lesson that stuck. Now a research scientist with the California Academy of Sciences, Nichols has emerged as one of the leading voices on the human factors influencing conservation. A visionary with a penchant for big ideas, he has launched a group called Bluemind to bring together neuroscientists and marine biologists to talk about how oceans affect human emotions and cognition, a field of research Nichols calls "neuro-conservation." A November 2011 profile in *Outside* magazine describes Nichols' "feel-good approach" as a refreshing alternative to the ominous tone of modern environmentalism.

Bluemind's second summit, held in June on North Carolina's Outer Banks, featured speakers on how oceans reduce stress and why people pay more for oceanfront real estate—as well as swimming and beach yoga.

"Scientific research wasn't enough. Now what we're doing is a lot of social sorts of things, understanding the economics and policy issues, as well as marine science."



TURTLES OF BAJA

This is the Pacific. The ocean is vast and deep, and the water is blue. The sun is shining, and the sky is clear. The water is calm, and the air is fresh. The ocean is a beautiful and mysterious place, and it is a source of life and sustenance for many people. The ocean is a source of food, and it is a source of recreation. The ocean is a source of inspiration, and it is a source of hope. The ocean is a source of life, and it is a source of love.

Clucks Away

I'm thrilled to hear that *The Chanticleer* is "Still Clucking" after 100 years [March-April 2012], as it truly shaped the course of my career. In 1985, as a junior majoring in computer science, I was elected to serve as the editor of *The Chanticleer* with no prior yearbook or publishing experience.

During my senior year as editor of the yearbook, I became fascinated with the business of book publishing. Shortly after graduating, I developed and published custom books for the America's Cup and the International Olympic Committee. Not long after that, I started my first company (the first of six) and had a book on *The New York Times* best-seller list. Twenty-five years later, I still love my career as an entrepreneur and book publisher. It has absolutely been my calling, and I give all the credit to the opportunity I had to serve as the editor of *The Chanticleer*—and all the thanks to those who entrusted me with that opportunity.

Christopher G. Capen '86
La Jolla, California

No More Victims

A hearty amen to the letter from Margaret Knight Hultsch '54 [Forum, March-April 2012]. She is right on target: Victimhood is a major industry in the U.S. We have multiplied the number of organizations offering to solve our social ills (in exchange for your money, of course), but none of them would want the cause they champion to be put to rest, for it would put them out of business. We have turned common sense and logic upside down and wonder why we are unable to solve our problems. You cannot find solutions with "upside down" thinking.

I join alumna Hultsch in saying, don't let *Duke Magazine* fall for trends that do nothing more than create the appearance that one is tuned in to the latest fashion.

Theodore R. Morton Jr. B.D. '56
Greenwood, South Carolina

Send letters to: Box 90572, Durham, N.C. 27708 or e-mail dukemag@duke.edu. Please limit letters to 300 words and include your full name, address, and class year or Duke affiliation. We reserve the right to edit for length and clarity. Owing to space constraints, we are unable to print all letters received. Published letters represent the range of responses received. For additional letters: www.dukemagazine.duke.edu.



THE Quad

NOTEWORTHY FROM AROUND CAMPUS

Capping off a good year: Pratt School of Engineering graduates celebrate at Duke's 160th commencement.

BY THE NUMBERS

It takes a lot of work—and bandwidth—to keep a university and medical center running in 2012. The Office of Information Technology handles massive amounts of electronic data daily through e-mail servers alone. OIT adds it all up below.

2.8 Million

Average number of daily e-mail messages sent to Duke's servers

2 Million

Average number of those messages that are blocked as spam or phishing attempts

24.7

Terabytes of data in Duke's mail system

371,156

Average number of outgoing messages sent through Duke's e-mail servers each day

49,671

Total number of Duke e-mailboxes

8,131

Number of e-mail lists at Duke

90

Number of e-mail lists that contain the word "alumni"

Source: Duke Office of Information Technology

"[Hiring managers] are not incentivized to find a perfect candidate slowly, but to find a good-enough candidate quickly. If they post a job online, they'll get inundated with résumés, and the only fair way to look at all of them is to not look at any."

—**Steve Dalton** M.B.A. '04, senior associate director of daytime M.B.A. student services at the Fuqua School of Business, on his new book, *The 2-Hour Job Search* (*New York Post*)

"The sugar in Coke is no more harmful than the sugar in apple juice or a milk shake. This is understandably confusing to residents, who may wonder why New York is planning to ban large sodas but not triple-decker chocolate cakes, or why the 280 calories in a twenty-four-ounce Coke are somehow worse for them than the 330 calories in a Starbucks peppermint mocha."



—**Peter Ubel**, a professor in the Fuqua School of Business and the Sanford School of Public Policy, on New York's plan to bar restaurants from serving large sodas (*Philadelphia Inquirer*)

"I could have easily chosen not to bother with this, but ultimately I realized that I wouldn't lose anything from trying."

—**Cody Kolodziejzyk** '12, inventor of the "I'd Cap That" phone app, which allows users to add crude captions to photos, and which became the most-downloaded free app on iTunes for a week in May

"At its best, a liberal-arts education leads students to unfamiliar disciplines and sets them on unexpected paths. Should society complain that the liberal arts converted a desperately needed math whiz into yet another attorney? Perhaps. But I'm not complaining."

—**Adam D. Chandler** '06, in an online dialogue about a *New York Times* column questioning the value of college education



Les Todd

Home grown: Duke Farmers Market features locally grown food, cooking demonstrations, and live music.

“What struck us about Duke’s market is the effort that’s obviously gone into making it more than just an open-air grocery store.”

—**Laura Milligan**, editor of BestCollegesOnline.com, which profiled the twelve-year-old Duke Farmers Market as one of its “10 Most Impressive College Farmers Markets”

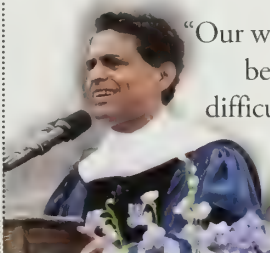


“I know what you said. I know why you said it. But you said it.... I’m a member of the Blue Devil nation, and we weren’t feeling it.”

—*Parks and Recreation* actress **Retta Sirleaf** ‘92 on *Late Night With Jimmy Fallon*, in which she chastised the host for disparaging Duke during an appearance with President Obama on UNC’s campus

“We felt that Duke was changing a lot, and it was clearly not in the benefit of off-campus fraternities.... Now that you’re randomly assigned and can only block with six [students], it just separates the [pledge] class too much and doesn’t promote the unity that a fraternity should have.”

— **Alex Gendell** ‘12, former president of Kappa Sigma, on the new housing model’s impact on the fraternity’s decision to return to campus and rejoin the Interfraternity Council



“Our world is at peace, profoundly at peace.... Yes, you may be going through a particular year or two that are more difficult than others have been, but this is an extraordinary world [and] country you’re coming into.”

—Journalist and author **Fareed Zakaria**, addressing Duke’s 2012 graduates during commencement ceremonies at Wallace Wade Stadium

Flipping the Classroom

More professors are shunning the lecture and letting students do the talking.

After twelve years of teaching introductory and organic chemistry at Duke, Stephen Craig '91 knows many of the most important moments in his students' learning don't happen in the classroom.

"They occur at 2:30 in the morning, in the commons room of their dormitory, probably the night before an exam," laughs Craig, a professor and chair of chemistry. "It's when students are trying to work through the material together."

Last fall, Craig tried an experiment to see if he could capture more of that magic at a waking hour. He retooled his honors chemistry course, abandoning lectures and a single textbook to free up class time for interaction. Students were expected to bone up on the basics outside of class, using instructional materials, videos, and short segments of recorded lectures that Craig loaded onto the class' website. Instead of listening to Craig drone on about the ideal gas law, they spent their class time working through problems in small groups, with Craig dropping in to nudge them along.

"It was a little unsettling at first to be in the room and not be talking," he says. "But in the end, I got to know students at a different level intellectually and personally." And that connection paid off: Although students in the class had identical test scores to those in a parallel course taught in the traditional format, they reported higher levels of confidence in their speaking and writing skills, and they appeared markedly better prepared to analyze alternative arguments, Craig says.

While the lecture isn't quite the bread-and-butter it once was, it's still the dominant format of large survey courses like introductory

chemistry, which in its various forms is taken by 700 Duke students each year. Often the sheer volume of material to be covered in such classes leaves professors feeling they have little time to engage students in discussion. But a glut of instructional material online—much of it free—has made it easier for professors to turn the task of mastering the basics over to students and devote time instead to synthesizing and applying knowledge.

"It changes the focus of the interaction between a professor and student from just information transmittal to more of a process of shared discussion and discovery," says Steve Nowicki, dean and vice provost for undergraduate education.

Nearly all of the classes at the Duke-NUS Medical School in Singapore follow the team-based approach, sometimes referred to as a "flipped classroom" because it flips traditional notions of what happens in and outside of class. And more undergraduate classes are lined up to do the flip. This fall, public-policy associate professor Kathryn Whetten will teach an introductory course on global health in the format, and the economics department is exploring converting its three-course introductory sequence to center on team learning.

Meanwhile, Craig was sufficiently encouraged that this fall he will teach another, larger section of the honors course in the flipped format. And although he says he'll miss the adrenaline rush of lecturing, that's a trade he's willing to make for better classroom chemistry.

—Michael Penn



Chemistry on demand: One of Stephen Craig's video lectures

Courtesy: Stephen Craig

FOOTNOTE ►►

The Duke Marine Lab in Beaufort, North Carolina, will soon break ground on the **Orrin Pilkey Marine Sciences and Conservation Genetics Center**, a new research and teaching facility focused on molecular biology. The project's lead donors, Philip '68 and Kathy Froelich, requested the facility be named in honor of Pilkey, a longtime faculty member at Duke's Nicholas School of the Environment and one of America's most widely cited coastal geologists.



At home at sea: Pilkey leads a student expedition near the Duke Marine Lab.

Chris Hildreth

What Happens Next?

One Life to Live, O.J. Simpson, and the art of storytelling

As an Emmy Award-winning television writer and author of such novels as *Foolscap* and *Handling Sin*, Michael Malone brings a certain street cred to his work as a professor of the practice of theater studies and English. When he talks to students about the importance of compelling plotlines and characters, he can point to examples such as Margaret "Marty" Saybrooke, the fiery heroine he introduced while writing for *One Life to Live* and one of daytime drama's most memorable characters. Here, Malone reflects on his role in creating some of the serial's most famous—and controversial—storylines.

What are some critical components that are vital to making a story great?

What makes fiction work is quite fundamental. You make the reader, or the viewer, want to know what happens next to characters they care about. Both of those things have to be true. There's a great deal of modernist fiction where two people just stand in a room holding a glass of wine and say, "Oh, we'd get a divorce if it weren't so much trouble to do it." They don't "do" anything. Think of Little Red Riding Hood. She goes through the woods, and suddenly a wolf jumps out at her. What happens next? You want to know. You care about Little Red Riding Hood.

Some thrillers are all about the plot—the "what happens next"—without your investing in the character. But people can come to care about fictional characters very deeply. They spend time with them, they admire them, or they are suspicious of them—they are invested.

On *One Life to Live*, you put Marty Saybrooke in some controversial situations. Tell us about writing that character.

Margaret Saybrooke, named for my daughter Margaret and the town in Connecticut where we lived, is this wild, angry young woman. [In one episode], she tells a lie about a minister being gay and involved with a teenage parishioner. The network was terrified about this story. "My God," [they said,] "it's a story about homophobia. You can't do this." I said, "Yes, we can." They said people were going to write in negatively. They did not. Five thousand letters a day [were] coming in saying thank you.

What did that whole experience teach you about the importance of taking that kind of risk in writing?

A writer does what he or she does. [Writers do] what they feel—what they think is important.

One of the things that drew me to writing was that



you would reach that large of an audience and that they would care passionately. For example, Vicki, [the principal character on the show], someone who the audience had lived with for many

years, said, "Be tolerant. Extend yourself to understand someone

"It's all about story."

different from you," and the audience listened.

I also had a very brave executive producer, Linda Gottlieb. She would say, "Yes, we are going to do this story, and fire us if it doesn't work." You need that kind of bravery. What I love about working in the performing narrative arts is that they're collaborative. That's very important to me.

What is your take on the shift from soap operas to reality television?

It's all about story. I don't think story—and our desire as a human species to hear stories—will ever go away. It can be around the campfire,

it can be in a children's book, it can be on the stage, or it can be a reality show. What we are looking for is a story.

The fact is that one of the things that broke the ratings of daytime fiction was the O.J. Simpson trial. People stopped watching their "story" to watch another story, which was a story with a lot of suspense, and an outcome that people wanted to know.

Reality television, which is much less expensive, still maintains that sense of story: Who is going to survive on this island? Who is going to come down the runway? Who is going to be the American Idol? So that hasn't changed. Story won't ever go away.

Adapted from a video interview conducted by Jasmin Aldridge '12. To see the full Office Hours program, go to dukemagazine.duke.edu. The Office Hours video series recently won a silver medal in the Council for Advancement and Support of Education's Circle of Excellence Awards.



Reaffirming Commitment

Duke: Amendment won't change same-sex benefits.

Following passage of a constitutional amendment banning same-sex marriage in North Carolina, Duke administrators were unequivocal about how the amendment will affect Duke's benefits and employee relations.

Bottom line: It won't.

In the weeks before the May 8 vote on North Carolina's Amendment One, Duke officials reiterated the university's commitment to same-sex benefits, stating they "stand alongside the LGBT community in seeking a more equal world." Approval of the amendment, which received more than 60 percent of the final vote, changes nothing about that commitment, says Kyle Ca-

vanaugh, Duke's vice president for administration.

"Duke was one of the first employers to make benefits available to same-sex partners in 1994 as a way to be inclusive and supportive of the needs of all faculty and staff, and this support will continue," Cavanaugh wrote in a memo to Duke deans, directors, managers, and others.

The amendment swirled at the center of a months-long campaign battle that deeply divided North Carolina voters. However, in Durham County, where 70 percent of voters opposed the amendment,

"[Duke officials] stand alongside the LGBT community in seeking a more equal world."

the political tone was different. The Duke College Republicans, Duke Democrats, and Blue Devils United all argued against the amendment, which defines a marriage be-

tween a man and a woman as the only legal form of domestic union in the state. In a joint statement, the student groups said the amendment "limits both same-sex and opposite-sex couples' legal recognition through civil unions, and it interferes with religious freedom by further entangling the government with religious marriage."

ON THE PLAZA

Evolving Interests

Growing up in Canton, Georgia, Ken Hoehn wasn't exactly encouraged to study the science of evolution. "The community I grew up in was very Christian-conservative, so evolutionary theory was one of those forbidden fruits," says Hoehn, who first was drawn to science by collecting insects as a boy. "But I was always curious about it."

At Duke, that curiosity has blossomed into a driving passion. An A.B. Duke Scholar who already has published in a scientific journal, Hoehn is spending the summer before his senior year

working on two separate research projects related to evolution. In one, he is working with Mohamed Noor, professor and associate chair of biology, to try to understand the effect of a certain genetic mutation on the evolution of fruit flies. For that project, he's

studying the genomes of multiple species of fruit flies to trace the evolution of the mutation.

When he's not combing through fruit-fly genomes, he's thinking about fossils from the dinosaur era. His other summer work involves trying to develop new statistical techniques to study levels of natural selection during mass extinctions, like the one that wiped out the dinosaurs 65 million years ago. The project grew out of an assignment for a macroevolution class, but its roots go back further into Hoehn's past.

"Levels of selection is a big topic within evolutionary theory.... I was



reading some of the literature on it before I even got to Duke," he says. "I am now bringing [my project] to be where I think it could be relatively influential."

Hoehn says he decided to pursue computational biology rather than a premed curriculum, in part, because "I just didn't particularly like studying people." But he learned early on that lab research can still be full of human emotions. During his freshman year, he spent a couple of hours every other morning in Noor's lab watching flies mate and gathering data. After months of this routine, he found out the flies were contaminated—and thus all the data he'd collected was useless.

"One of the biggest characteristics [of a good researcher] is just tolerance of frustration," Hoehn says. "A lot of times projects just don't work."

—Mike Schreiner

Ken Hoehn '13

Major: Biology

Hometown:

Canton, Georgia

BOOKBAG

LAW 717: COMPARATIVE CONSTITUTIONAL DESIGN

The catalyst: Law and political science professor Donald Horowitz is an expert on constitutional design for severely divided countries. He recently worked on the transitional constitution of South Sudan and has published a book on Indonesia's transition from an autocracy to constitutional democracy. "The best courses are usually the ones that mesh with the instructor's own interests," he says. "[This course] is the subject matter of my research... It's something I have been working on for decades, really."

The gist: Horowitz wants students to understand that there are many different kinds of government and that "standard Western democratic institutions" will not work around the world. "Americans tend to be very heavily focused on one particular country—that is our own country," he says. "This should widen horizons of a great many students about what the choices are out there."

The twist: Horowitz will spend the semester at Duke's newly opened center in Washington, meaning the majority of the course will be taught by videoconference to students at the law school. Horowitz will travel to Duke for the first two and final two classes, allowing his students to develop a connection they might not otherwise. "Without any in-person introduction, I think it would be much harder for them," he says.

Assignment list: The class will draw on current materials from countries around the world. "I have it in mind that students will read the Libyan election law translated into English," Horowitz says. "That's not an opportunity you are going to have in too many other classes."

What you missed: There will be plenty of probing discussion of countries involved in the Arab Spring. Horowitz plans to ask students questions such as: "If you were making a new constitution in Tunisia or Egypt, would it be a good idea to make the constitution or have the elections first?" And as recent events bear out, even nations struggle with that one.

—Mike Schreiner



Honored: Gene Kendall, Wilhelmina Reuben-Cooke, and Nathaniel "Nat" White, the three surviving members of the first five undergraduates to integrate Duke in 1963

Legacy of Five

Gift, scholarship honor Duke's first African-American students.

When Wilhelmina Reuben-Cooke '67, Gene Kendall '67, and Nathaniel White '67 arrived at Page Auditorium on Reunions Weekend in April, they assumed they would be watching the usual presentation of class gifts. But the three surviving members of Duke's first cohort of African-American undergraduate students were in for a surprise.

After acknowledging the annual fund gift from the Class of 1967, President Richard H. Brodhead paused to make another announcement. He told the audience that Duke trustee and fellow member of the Class of 1967 Jack Bovender Jr. '67, M.H.A. '69 and his wife, Barbara, would fund a \$1 million scholarship in honor of Duke's first five African-American undergraduates.

Bovender says those five—Reuben-Cooke, Kendall, White, Mary Vashtie Mitchell Harris '67, and Cassandra Smith Rush '67—"changed Duke forever" with their bravery, adding he was pleased to make the announcement on the occasion of their 45th class reunion.

Kendall, a retired rear admiral in the U.S. Navy, says he was "floored" by the announcement. "The applause from the group and subsequent tumult probably saved me from showing the tears that welled in my eyes," he says.

Duke will mark the fiftieth anniversary of the students' 1963 enrollment formally with a series of events beginning in January 2013.

Big Man and the Mouse (Lemur)

One is a retired NBA superstar; the other is a bug-eating, nocturnal prosimian. But **Shaquille O'Neal** found plenty to like about Fuggles, a mouse lemur from the Duke Lemur Center, during a photo shoot for Centre ValBio, a nonprofit that works to preserve endangered species and conducts biodiversity research in Madagascar. The center staged the photo to demonstrate the remarkable diversity of size of the primate family. For the record, Fuggles measures about 10 inches long and weighs less than a tenth of a pound—about 0.03 percent of Shaq's weight.



Ben Hagill (courtesy of Mireya Mayor)

Who Needs Feminism? Lots of People.

Student project to collect personal testimonies goes viral.

On the first day of her “Women in the Public Sphere” course this past spring, Rachel Seidman told her students they would be responsible for a single class project, one they would be inspired to continue even after the course finished. But no one imagined just how far that project would go.

The class designed an online campaign titled “Who Needs Feminism?” that invited contributors to submit a photo of themselves with a note explaining why feminism mattered to them. After a rocky start—which saw some of the campaign's campus posters defaced with comments such as “Sandwiches don't make themselves”—the effort went viral, drawing more than 12,000 (and counting) “likes” on Facebook and more than 2,000 submissions through the social-media site

Tumblr. (Another 2,000 contributions still are waiting in the campaign's inbox.) Social-media-monitoring sites BuzzFeed and Mashable took note of the campaign, which also won *GOOD* magazine's

sions beyond Duke. “So then we thought about how to make this campaign personal to people, how feminism is relevant in people's lives. And as we conceptualized this campaign, [we found ourselves

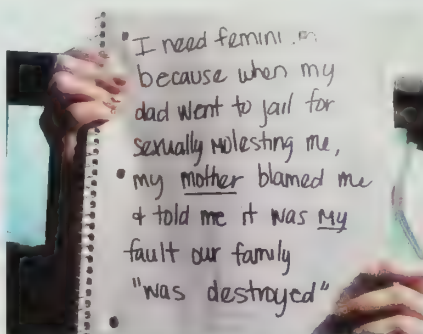
asking] who do you think needs feminism? And the answer became, everyone. Everyone needs feminism.”

“I was thunderstruck by what they had tapped into,” says Seidman, a visiting lecturer in women's history. She says the campaign revealed a “very powerful vein of frustration and anger among young women...but also this wonderful, creative, optimistic, and potentially powerful

force of what young women are and can be.”

“It's been an amazing learning experience for me and the students,” Seidman adds. “They definitely all got an A on the final project.” —*Elissa Lerner*

“We wanted to redefine popular feminism, but that wasn't right because it's difficult to define feminism at all.”



Why it matters: The personal is political.

GOOD Goes Viral Award.

“We wanted to redefine popular feminism, but that wasn't right because it's difficult to define feminism at all,” says Ashley Tsai '13, a student who encouraged opening up the project to submis-

A Catalytic Gift

\$15 million Rubenstein donation will spark entrepreneurship programs.

Like most start-up ventures, Duke's two-year-old Innovation and Entrepreneurship Initiative has grand ambitions, which fall nothing short of remaking the university's entrepreneurial culture. In May, the initiative received another critical piece to realizing those ambitions: a significant investment of capital.

Duke trustee David M. Rubenstein '70 has donated \$15 million to serve as a catalyst for the initiative, which is working to build a stronger set of programs for entrepreneurial-minded students, faculty members, and alumni. The gift will help support the development of new courses, internships, research projects, and other programs focused on entrepreneurship and innovation.

"David Rubenstein's gift will establish a pathway through which ideas gain traction and are transformed into action for an evolving global economy that's driven by innovation and entrepreneurship," says Kimberly Jenkins '76, M.Ed. '77, Ph.D. '80, senior adviser to the president and provost for innovation and entrepreneurship.

Launched in October 2010, the Innovation and Entrepreneur-

ship Initiative has created and enhanced programs that support undergraduate, graduate, and professional students in their development of innovations and new ventures. As part of a pilot program this summer, the initiative placed ten undergraduates in internships with start-up companies in Silicon Valley. Students also are working with Duke alumni at the business incubator Dogpatch Labs, as well as with DUhatch, an on-campus incubator located in the Pratt School of Engineering.

Rubenstein's support of entrepreneurship comes just nine months after he gave Duke University Libraries \$13.6 million to support the newly renamed David M. Rubenstein Rare Book & Manuscript Library. He is also a major benefactor of the Sanford School of Public Policy and gave the lead gift to build the school's Rubenstein Hall. Outside of Duke, he serves as the chairman of the John F. Kennedy Center for the Performing Arts, a regent of the Smithsonian Institution, president of the Economic Club of Washington, vice chair of the Brookings Institution, and board member of the Council on Foreign Relations.

PLANETDUKE | Italy

At a Glance

Current students who were born in Italy:

15

Italian nationals working at Duke:

51

Alumni living in Italy:

66

Number of undergraduate students who traveled to Italy with university programs in 2011:

148

Key Duke connections:

- Semester-long **Duke in Venice** study-abroad program; summer programs in Venice and Rome
- **Visiting-scholar exchange program** between Venice International University and Duke's Center on Globalization, Governance, and Competitiveness
- **Caroline Bruzelius**, Anne M. Cogan Professor of art, art history, and visual studies, has taken classes to several sites in Italy to study and model medieval architecture

Reclaiming History's Treasures



Courtesy Carla Antonaccio

Returned treasure: A gilded silver inset depicting a mythical creature was among the pieces brought back to Sicily.

Carla Antonaccio may not seem like a bullwhip-brandishing, Indiana Jones-type adventurer, but the classical studies professor nonetheless wound up in the middle of an international detective story.

At the center of the tale were sixteen ancient cups, bowls, and other objects that for many years were on display at the Metropolitan Museum of Art in New York. At the request of the Italian government, Antonaccio and a team of American archaeologists spent three summers in the late 1990s digging up a 2,300-year-old house on a hillside in Sicily to find clues as to whether the artifacts had been plundered from the site. The team found an

inscription on one of the pieces that matched an ancient land deed in Sicily, prompting the Met to return the pieces, one of several high-profile acts of repatriation in recent years.

Antonaccio has spent nearly every summer for the past two decades in Sicily, where she is piecing together the story of a small, but sophisticated ancient community inhabited by Greeks, Romans, and other cultures. "Sicily is one of those places that was continually overrun," she says. "The Vikings ran through there. The Arabs held it for many years. So it's a great laboratory to set up shop and see how people lived."

When she is in Sicily this summer, she will work in the local museum, which now proudly displays the silver objects it has finally reclaimed. "They belong in their country of origin," she says.

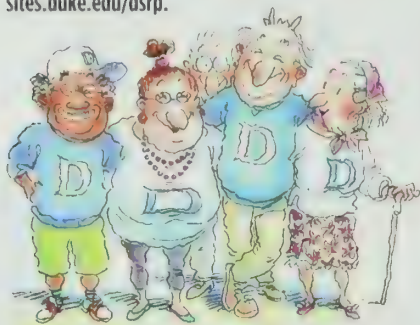
—Eric Ferreri



DUKE360

How Duke Lives

How connected is the typical Duke student? That's not so easy to answer. The Duke Social Relationships Project, a four-year study examining various aspects of Duke student life, found there's no one path to feeling connected and valued at Duke, but having close friendships, being excited about coursework, and identifying oneself as a fan of varsity sports were among the top predictors of student feelings of belonging. The full report is available online: sites.duke.edu/dsrp.



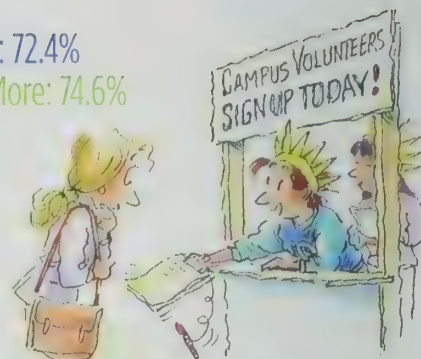
Average number of lifelong friends made at Duke

Men: 4.98 **Women:** 4.66

"I wish I was dating..."

Men: Less: 1.8% | Same: 25.8% | More: 72.4%

Women: Less: 1.2% | Same: 24.2% | More: 74.6%



Current Activity and Organization Participation

Average hours per week spent on clubs, activities, and organizations

Men: 6.94 **Women:** 7.44



Alcohol Use and Misuse

Percentage of students who describe themselves as "non-users" or "very light users" of alcohol

Men: 44.8% **Women:** 51.1%

Faculty Contact

If you had to get letters of recommendation, how many professors at Duke do you think know you well enough to write a letter for you?

Men: 3.14*

Women: 3.17*

* Average for juniors and seniors



NOTABLE



Richard H. Brodhead was appointed to a new five-year term as Duke president by the board of trustees during its May meeting. In a statement, the board gave Brodhead its "unanimous and enthusiastic" support for continuing his leadership of Duke.

Two Duke professors were among 220 scholars selected to the American Academy of Arts and Sciences. **Victor Dzau**, chancellor for health affairs and James B. Duke Professor of medicine, and **Caroline Bruzelius**, Anne Cogan Professor of art history, join forty-two other Duke scholars as members of the prestigious honorary society.

Three Duke professors—**Sarah Beckwith** of theater studies, **Robert Mitchell** of English, and **Joshua Sosin** of classical studies—are among the thirty national and international scholars selected as fellows of the National Humanities Center for 2012-13.

Professor of mathematics **Ingrid Daubechies** won the 2012 Frederic Esser Nemmers Prize in mathematics, honoring her outstanding scholarship in the field. The \$200,000 award, given biennially by Northwestern University, is one of the largest monetary prizes given to academic mathematicians.

Paula McClain, a professor of political science, was appointed dean of the Graduate School and vice provost for graduate education. A member of the faculty since 2000, McClain chaired the university's Academic Council from 2007 to 2009 and has been active on a number of other high-level committees.

Albert Scott, former director of housekeeping at North Carolina State University, was hired as Duke's senior director of grounds, housekeeping, sanitation, and recycling services.

A \$10 million gift from **Jeffrey '83** and **Penny Vinik** has established the Vinik Faculty Challenge Fund, a dollar-for-dollar matching fund to hire and retain professors who focus on finding solutions to complex challenges in engineering and related fields.

Ideas

ENVIRONMENT

The Dirt on Soil

One of the first things you learn hanging around soil scientists such as Duke's Daniel Richter Ph.D. '80 is that it's an egregious insult to call soil "dirt." Dirt is dust, the stuff that accumulates in door jams and shoe treads. Soil, on the other hand, is an ecosystem—Earth's thin blanket of teeming life that undergirds our very existence.

But that blanket is increasingly fragile. With more than half of the planet's soils being actively managed for agriculture, development, and other human purposes, humans are now the dominant forces affecting the quantity and quality of soils, argues Richter, a professor of soils and ecology at the Nicholas School of the Environment. To better monitor and understand these changes, the veteran scientist has been leading a charge within his field to formalize the study of anthropedology—the human effect on soil formation. He recently won support from the Wallace Genetic Foundation to begin planning the first coordinated sampling and analysis of intensively managed soils worldwide.

"I'm trying to promote the idea that we should be thinking about soil and managing soil to the same extent that we think about and manage air and water," he says. "Most of the water-pollution problems we're concerned about are directly associated with how we treat land and soil, and yet they go under the heading of being water problems. We need to understand that they are equally land-management problems."

Richter studied philosophy as an undergrad at Lehigh University but turned his eyes to the ground during graduate work at Mississippi State University. He recalls a visit to a Mississippi cotton field, where a professor "started to talk about the earth in a way that I had never thought about before," he says.

"Our connection to soils is so obvious that we tend to overlook it," he says. A good place to start, he reminds us, is always right under our feet.

—Michael Penn



Ideas

MEDICINE

The Scars That Heal a Heart

How do you mend a broken heart? Duke medical researchers think they have a new way, using the very scar tissue that forms after a heart attack.

Scientists at Duke University Medical Center used molecules called microRNAs to trigger scar tissue to convert itself into healthy heart muscle. They completed the conversion in a lab dish and, for the first time, in a mouse, potentially creating a way to regenerate heart tissue without the need for stem-cell transplantation.

"This is one of the exciting things about our study," says Maria Mirotsoy, assistant professor of cardiology at Duke and a senior author of the study. "We were able to achieve this tissue conversion in the heart with these microRNAs, which may be more practical for direct delivery into cells and allow for possible development of therapies without using genetic methods or transplantation of stem cells."

The technique targets fibroblasts, cells of scar tissue that form after an attack and impair the heart's ability to pump blood. But it may have implications beyond heart disease, says Victor Dzau, a senior author on the study and James B. Duke Professor of medicine.

"This is a significant finding with many therapeutic implica-



Change of heart: Successful regeneration of damaged aortal tissue may have broader therapeutic applications.

tions," says Dzau, who is chancellor for health affairs at Duke. "If you can do this in the heart, you can do it in the brain, the kidneys, and other tissues. This is a whole new way of regenerating tissue."

WHAT WE'VE LEARNED: EATING

Recent insights from Duke research on diet, eating, and obesity:

Labels may not be helping us watch our diets much.

A study led by the Fuqua School of Business found that in the two decades since foods were required to carry "Nutrition Facts" labels, the actual nutritional quality of food products in supermarkets has decreased. Researchers say food companies are responding more to consumers' demand for better-tasting foods, which seems to trump whatever is on the label.



If you can't eat less, just don't eat more.

In a recent study, Duke psychology professor Gary Bennett A.M. '99, Ph.D. '02 showed that patients who were advised simply not to eat more than they already do were able to maintain their weight longer than other patients. Although the sample was small, the study suggests subtle methods of diet control may be more successful than asking patients to dramatically alter their diets.

Sides matter.

A good portion of the calories in a fast-food meal comes from inexpensive side dishes such as fries, rice, and pasta—which often aren't what consumers really want. When Duke behavioral economist Dan Ariely Ph.D. '98 and a colleague set up an experiment at a campus Chinese restaurant, they found one-third of customers were happy to receive a smaller portion of rice or noodles, even when downsizing didn't save them money.

Even the status quo would be good news.

A new forecast by Duke public-health researchers estimates that 32 million more Americans will become obese in the next twenty years. If that could be prevented and obesity rates stayed level, the U.S. would stand to save \$550 billion in health-care costs during the next two decades, the researchers say.

SAVE!
\$550,000,000,000.00



istockphoto

BIGQUESTION

Can your environment change your DNA?

Perhaps one of the only things we remember from eighth-grade biology is that DNA doesn't change. The 3 billion letters that make up your personal genome are with you for life, a master blueprint handed down from your parents. But not everything about how your genes operate is programmed at birth. Simon Gregory, an associate professor of medical genetics and codirector of the Duke Epigenetics and Epigenomics Program, explains:

While the sequence of DNA may not be affected by your environment, the way genes work—called gene expression—can. Think of DNA as a computer's hardware; there may be several types of software programs that can regulate what the hardware does. Epigenetics is the study of heritable changes in gene expression that don't involve changing the underlying DNA—effectively, software changes that cause alterations in gene function.

Environmental factors such as food, drugs, or exposure to toxins can cause epigenetic changes by altering the way molecules bind to DNA or changing the structure of proteins that DNA wraps around. These structural changes can result in slight changes in gene activity; they also can produce more dramatic changes by switching genes on when they should be off or vice versa.

These changes are heritable, meaning they can be passed on from parent cell to daughter cell within the body, and from parent to child. An extraordinary study of survivors of the Dutch famine during World War II, for example, has shown that the effect of epigenetic changes caused by hunger don't show up in the survivors' children, but they do in their children's children. This perhaps suggests the adage should not merely be, "You are what you eat," but also, "You are what your grandparents ate."

To learn more about Duke's research on epigenetics, visit www.genome.duke.edu/DEEP/.

ENGINEERING

Failure Is an Option

Failure is a successful theme for Henry Petroski. As Duke's resident expert on design and structure, he has spent almost three decades teaching and writing about everything from bridges to toothpicks to pencils to space shuttles—including what underlies design mishaps.

In his new book, *To Forgive Design: Understanding Failure*, Petroski, Aleksandar S. Vesic Professor of civil engineering and professor of history, surveys some of the most infamous failures of our time, from the 2007 Minneapolis bridge collapse and the toppling of a massive Shanghai apartment building in 2009 to Boston's prolonged Big Dig and the 2010 Gulf of Mexico oil spill. He argues those failures followed from interconnected forces—technology and culture. "Certainly some failures are attributable to design errors, but they are not the only reason that accidents occur," he writes. "A design is a manifestation of a technological concept, but a designed thing or system can also be neglected, misused, and mishandled by its owners, managers, operators, and users."

Design does not occur in a technological or political vacuum, he observes. "Questions relating to cost, risk, and other economic, social, and political considerations can dominate the decision-making process and push to the background technical details on which a project's ultimate success or failure may truly depend."

Although Hurricane Katrina was clearly a natural occurrence, he writes, "it was the human design and maintenance of the levees and other storm-protection systems around New Orleans that were found wanting." In revisiting the *Challenger* disaster, he quotes the finding of the accident investigation board that "the NASA organizational culture had as much to do with this accident" as the insulating foam that broke away from the external fuel tank and struck the leading edge of the shuttle's left wing.

Petroski, in his conclusion, notes that specific failures occur "because of the coincidence of any number of factors that happen to converge at a particular place and a particular time," much as the *Titanic* had its chance iceberg encounter. "But it is the nature of the human and technological condition that until incontrovertible failures do occur there is the tendency—even among designers, who should know better—to think that the technology has been mastered."

"Certainly some failures are attributable to design errors, but they are not the only reason that accidents occur."



DIGITAL IMAGING

A Picture Worth 50,000 Mega-Words

Remember those not-too-distant days when people got excited about a camera with a couple of measly megapixels of resolution? Make way for the gigage. Duke engineers have now developed a camera capable of capturing up to 50,000 megapixels—or fifty gigapixels—of data, five times better than perfect human sight.

The prototype, designed by a team led by David Brady, Michael J. Fitzpatrick Professor of electric engineering, actually uses ninety-eight tiny cameras working in unison to create its hyperdetailed images. At more than two feet wide, it's not quite consumer-friendly yet. But researchers estimate that gigapixel-resolution cameras will be available to the general public within the next five years.

Mucking Around

At the Marine Lab, students look at what lurks beneath the water after dark. | By Ashley Yeager

Dan Rittschof sweeps his scuba light across a sliver of the Neuse River. It's 11:30 p.m., and he and his students are taking one last look across the water to see if any interesting creatures appear.

"I see an alligator eye," Rittschof says, standing ankle-deep in water. Two students beside him ask him where, a twinge of anxiety in their voices. Rittschof points his light straight out into the water, where it catches a reflection about thirty yards from shore. An orb about the size of a quarter gleams red, lingering just long enough for the students to get a good look before it sinks beneath the surface.

"Okay, back to shore," Rittschof says, his voice steady. "Let's grab a few more sea nettles and then head home."

It's not the first time Rittschof and his students have seen an alligator on one of his nighttime excursions around the Duke Marine Lab in Beaufort, North Carolina. And alligators aren't the only wild animals they've encountered. "In the twenty-eight years that I've been coming out at night, I see something new every couple of times," he says. Rittschof takes his students on night hikes to teach them about the ecology and marine life of the waterways around Beaufort. Many of the area's wild residents don't appear during the day, when humans are out. "They're too easily eaten," he says.

But the hikes are also a kind of indoctrination. "Walking at night makes you alert," Rittschof says. "You're not secure in your surroundings or your footing, which gives you just the edge to observe what is in front of you a bit more clearly."

Rittschof's hikes usually take students either to the banks of the Neuse or to a small island a short canoe-paddle away from the marine lab. On this rare occasion, he takes students to both destinations. The first adventure, to the island, begins at 8:30 p.m., just as the sun is setting. Rittschof and four women taking his "Biochemistry of Marine Animals" course equip themselves with life vests, paddles, fishing nets, a few five-gallon buckets, and scuba lights duct-taped to wooden poles, and then head to

the lab's dock. They pile into two canoes and set off, thankful the winds from the approaching tropical storm Beryl have not yet reached North Carolina.

Lights from Beaufort, the nearby Coast Guard station, and a half moon put the strip of land into silhouette. Rittschof jumps out of his canoe as its bow lodges into the gooey muck near the shore. Students plunk into the mud and help carry the boat high enough on the island so that it won't be swept away by the rising tide. By now, the students in the second canoe have arrived. The women splash into the mud. "I'm stuck," one cries, and another gives her a hand to help pull her feet free. They drag their canoe up the beach, prompting Rittschof to remind them gently to lift it.

Rittschof says. Students begin picking up crabs by hand, a few at a time. "Ooh, they're pinching me!" one student exclaims, shaking her hand. "Stop!"

Rittschof uses a small fishing net to dump a scoopful of sand and crabs into the bucket. "That should be enough," he says.

Rittschof—whom most students call "Dr. Dan"—moves nimbly through the dark. The students stop at a tidal pool, where they see a sea anemone with its fleshy tentacles extended, feeling around for an evening snack. Its Medusa-like head is visible for a moment before retreating back into its tube-like foot.

As they continue along the shoreline, the students chatter, joking about the size of their toes. "Hanging out with twenty-year-olds keeps me young," Rittschof mut-



Creatures of the night: Under the glare of a scuba light, a female blue crab glides away from Rittschof; at right, student Summan Mirza pets the tail of a flounder on an earlier night hike at Beaufort.

With nets and lights in hand, the group paces across the island. Suddenly Rittschof stops. He switches on his scuba light and casts the beam a few dozen feet in front of him. Thousands, maybe millions, of inch-wide fiddler crabs scurry along the shore, their asymmetrical claws and tiny legs waving rapidly as they feel around for food. "Let's start getting some into the bucket,"

ters with a laugh. He may have even smiled briefly, though a crunching underfoot quickly shifts his attention. "Let's walk a little higher so we don't crush the crabs," he says.

Rounding one side of the island, Rittschof splashes knee-deep into the water. When the students gather around him, he turns on his scuba light and dunks



Katie Vo

it underwater. The students follow suit, fanning out in a line along the shore. They spot blue crabs—females popping with eggs and even a mating pair. Rittschof jokes that the two crustaceans probably aren't amused by the audience, and so the group leaves them to their cavorting.

The group isn't looking for anything in particular. Like Annie Dillard in *Pilgrim at Tinker Creek*, they're out just to discover.

When a student talks about catching a flounder with her bare hands, a flounder hunt ensues. The search goes empty, but Rittschof does bare-hand a hogchoker, a three-inch, flat fish whose scales feel smooth when rubbed in one direction and rough in the opposite. "Hogchokers are my favorite," Rittschof says, explaining that their slippery-yet-rough scales choke a predator when it tries to swallow them.

The hogchoker is barely back in the water when a student yells, "Squid! Squid! Squid!" Everyone freezes except Dr. Dan. He skitters over to where the student is pointing and maneuvers two nets back and forth like an ambidextrous chef, eventually

pulling up the gelatinous creature to the light. He reaches into the net and tries to lay the squid out in his hand, but the critter is furious, its translucent skin turning spotty. The squid wriggles and squirts a stream of water from his bowels. "He's trying to bite me," Rittschof says, calmly dropping the cephalopod back into the net. They watch it squirm in the water for a few moments before letting it go.

"Did you see that alligator's eye sink underwater?"

Two students stay on for the second leg of the tour, which begins after a thirty-minute drive along a gravel road to the edge of the Neuse. They emerge into a swarm of mosquitoes, breaking the eerie nighttime calm with the occasional slap of palm against skin. Again, Rittschof shows no hesitation walking into the dark waters, and the students follow. Their lights reveal the long, red tendrils of sea nettles, a kind of jellyfish, jiggling through the water.

After a few minutes of walking downriver, the water gets deeper, and Rittschof suggests heading back to shallower depths. His experience tells him that deep water could mean alligators or sharks. But he

hasn't lost a student on a nighttime hike yet. Moving closer to the shore, they press on to a spot where a cold-water stream feeds into the river. Tall grasses surround alleys of muck, perfect alligator hiding spots. But they also are hoping to capture video of dancing fish, thousands of six-inch mullet that are known to leap and twirl into the air when scuba lights shine above them. Tonight only a few juveniles flip and jive. It's a bit of a letdown, but "that's how these walks go. You never know what you're going to see, and no two experiences are the same," Rittschof says.

Disappointed, the crew heads upriver again, toward the car. And that's when they see the alligator's eye. Rittschof seems surprised. He leads the students back to the riverbank and dumps a few more sea nettles into a bucket. It's not until he gets the bucket, lights, nets, the two students, and himself safely back in the car that he asks, "Did you see that alligator's eye sink underwater?" That was spooky, he says. "Glad I wasn't here by myself. At night, things like that creep me out."

Yeager is a science writer for Duke's Office of News and Communications.

Brick by Brick

As a boy in Sudan, Nyuol Tong '14
wanted nothing more than to go to school.
Finally, his village has one.
Because Nyuol Tong built it.

By Cherry Crayton



In the summer of 2010, Nyuol Tong '14 returned to his home village of Ayeit in what is now South Sudan for the first time since he was five years old. He saw the remnants of war. Destroyed houses. Scorched land. Scarred people. Scarce jobs. A young population. And no schools. “Not even a single school,” Tong says. “That was a horrifying fact.”

Tong had read many memoirs and heard many testimonies about his home country. Most were stories of suffering, of war, and of trauma. There were the haunting and inspiring tales of “the lost boys”—the 20,000 or so Sudanese children, mostly boys, who fled their families during Sudan’s twenty-two-year-long civil war and lived among themselves, wandering in the wilds or living on the streets—who rose above the odds, with an extraordinary effort, to achieve what others said was impossible.

Tong’s story is not one of those stories, he says, or at least he hopes you don’t see it that way. Where he is now—which is at Duke, as a rising junior majoring in literature and linguistics—and what he is doing now—leading efforts to build a school in his homeland through his nonprofit SELF*Sudan* (the Sudan Education for Liberty Foundation)—is “nothing more than the simple extension of my education and my experience...and the result of many people.”

This is not a story of a lost boy who found his way home. Instead, Tong says, it is a “narrative of gratitude.”

When he was a child, Tong longed to go to school. Born in January 1991 into the Dinka tribe in southern Sudan, he was one of thirty-five children of Lueth, the chief of the village of Ayeit, and his seven wives. Though Lueth was “respected, admired, praised, and elevated” because of his status as the village chief, Tong says, he often talked of his greatest regret—that he did not receive a college education. Tong’s mother, Abuk Thuch, also talked of the importance of being well learned. Tong craved education for himself.

But during Tong’s childhood, Sudan was in the midst of the longest civil war in Africa’s



Building a dream: The walls of Ayeit’s first school take shape.

Sudan photos courtesy of SELF*Sudan*





Sudan photos courtesy of SELF Sudan

At the source: Tong's family compound near the banks of the Bhalek River, which provides drinking water for people and cattle in Ayeit.

history. After Sudan received its independence from the British in 1956, power had been consolidated in the north, home to a largely Arab and Islamic population. In the south resided a largely African and Christian population that felt disenfranchised. The first of two civil wars had broken out in 1955 between the northern and southern Sudanese. A peace agreement was signed in 1972. But by the end of the decade, oil had been discovered along the border that separated the north and south; and in 1983, Sudanese President Gaafar Nimeiry declared Sudan an Islamic state. The war resumed, and an almost uninterrupted period of fighting occupied the next twenty-two years, leaving nearly 2 million dead, more than 4 million displaced, and up to 80 percent of the villages and rural areas destroyed.

Because Lueth was a village chief who had influence over the community, a rogue militia group affiliated with the Islamic government in Khartoum solicited his help to fight against the Sudanese People's Liberation Army and other factions supporting southern Sudan. After Lueth refused to join a Khartoum-backed militia, the militia captured him. He escaped and went into hiding. When the militia could not find him, they tried to intimidate him by targeting everything associated with him. They torched the family's land; they stole the family's cows, prized possessions in the

Dinka tribe; and they targeted his children, including Tong. Once, armed men from the militia grabbed him, threw him into a hole, and fired ammunition around him. After that, his mother, several brothers and sisters, and Tong fled to Khartoum, the capital of Sudan. Tong was five years old.

He would not see his father for the next fourteen years.



In Khartoum, a highway divided the city in two. One side was home to Arabs and brick houses; the other to Africans and cardboard shacks, where Tong and his family lived as refugees for the next four years.

Tong built a reputation as a good soccer player, and the children in the Arab neighborhoods often asked him to cross the highway and join their team for pickup games. "I crossed that highway many times, and never thought much of it," he says.

Oftentimes, after a game, on his way home, Tong saw the imam in charge of the local mosque sitting on a chair outdoors, wearing glasses, and reading a newspaper. "It was the most inspiring image," Tong says. Sometimes Tong would stop, grab a chair, sit beside the imam, and pretend he was reading the paper, too. Tong couldn't read, so the imam would tell him what was going on in the country and explain words in the daily news, like *economy* and *geography*. "That's what I wanted to be—to be reading a newspaper and to be as

cool as that man," Tong says. "I just wanted to be educated."

Tong struck up a friendship with the imam's young son, Bashir, who attended a public school in the Arab-controlled area. Tong peppered Bashir with questions about his school work, asking him how to conjugate verbs and explain lessons. Bashir answered every one; he gave Tong whatever textbooks he had from the previous grades; and he taught him the national anthem and verses from the Koran. One day, when Tong was nine years old, Bashir told him he could come to school with him. "The school is public and free," Bashir said. "All you need is a school uniform."

Tong was ecstatic. For the next year, he babysat, delivered meals, washed cars, washed dishes, and swept the street to earn money to purchase a school uniform and supplies. Once he had enough money, he told Bashir, "I have everything in place."

On his first day of school, Tong arrived at 7:30 a.m. and was greeted by the Muslim boys he had become friends with through soccer. During the morning assembly, they sang the national anthem and read verses from the Koran together. But before Tong could make it to the classroom, the headmaster stopped him and took him to the front office. "You can't go to school," the headmaster told him.

"Why?" Tong asked.

Without looking him in the eye, and before ushering him off the school

Nyoul's Journey: A Sum of People and Places

1991

Born in Ayeit, Sudan, as the son of a village chief. At the time, Sudan is in the midst of a two-decade-long civil war.

1996

Father is captured by a militia backed by the Islamic government. He escapes and goes into hiding. Tong, his mother, and his siblings flee to a refugee camp in Khartoum, the capital of Sudan.

2000

Family moves to an Arab neighborhood in Khartoum because of growing instability in the refugee camp.

2003

Family moves to a refugee camp in Cairo, Egypt, to seek U.N. assistance migrating to the West.



Family ties: (from left) Tong's younger siblings, Madit and Matiok, will begin their first academic year in August as members of the first class of Malualdit Liberty Academy; Tong's sleeping hut.

grounds, the headmaster said, "You just can't go here."

Tong ran to a spot near a tributary of the Nile River and burned his school uniform and supplies. "It was the most painful experience of my life," he says. "It was the first time I realized that the highway was a dividing line and that Bashir and I lived in two different worlds. My self-esteem burned with the school uniform and supplies."

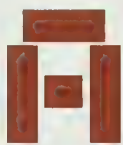
Tong became "bitter, rude, and violent," he says. During the pickup soccer games, he would instigate fights with other players or just stand in the middle of the soccer field and not move. Sometimes when the ball came to him, he would poke holes in it with sharp metals, nails, and sometimes knives.

One evening, he was drawing graffiti on a neighborhood wall when a student at the University of Sudan named Vивиanna Francis spotted him. She thought his drawing—a depiction of Sudanese singer Mustafa Ahmed—was spot on. Though her father was a member of the ruling National Congress Party, Francis supported the South Sudanese cause and invited Tong to attend a new school for refugee children that she and some friends were starting. He attended for four months before government officials shut it down because they said it was associated with rebels. "I felt defeated again," Tong says.

Francis continued to work with him one-on-one. She took him to the National Museum of Sudan, where he first

learned about the history of the country. She introduced him to literature and history books. And she helped him turn his frustrations into poetry. At a Christmas party for the refugee community, he recited a poem that she helped him write. "Why does this happen?/ How can it happen?/ The nameless, faceless, homeless/ With no place to call home," he recalls reciting. The words moved other refugees to tears.

Over the next several days, everywhere he went, people asked him to recite the poem again—and again they'd cry. When he showed up at the soccer field in his own neighborhood for the first time after reciting the poem to the refugee community, the other South Sudanese kids applauded him. "That is when I realized that I had so much more than school—that I had a community of my own and that I mattered," Tong says. "I want every kid to feel like they have something that matters."



few years later, Tong learned that Vивиanna Francis had gotten married and begun to work at a bank. Bashir had dropped out of school to make money. "Quite upsetting," Tong says. So when he finally had the chance to attend a formal school, Tong didn't waste the opportunity.

He came to the U.S. when he was fifteen years old on a scholarship to attend the Dunn School, a small college preparatory school near Santa Barbara, California. Again, his life had taken an unexpected

and fortuitous turn. In 2003, his family had left Khartoum for Egypt, where the United Nations had an outpost that helped refugees migrate to the West. In Cairo, he took a writing workshop for refugee children taught by Brooke Comer, an instructor at the American University in Cairo. Comer befriended Tong and recommended him to Dunn, her alma mater.

Tong had little experience with English, and at first he struggled at the Dunn School. An academic adviser worked with him before and after school and encouraged him to write poetry in the language. Tong also took introductory courses in algebra and geometry in the same semester his freshman year to catch up with his peers. "He had such a sincere passion for learning, and he absorbed everything," says Helena Avery, who taught Tong geometry at the Dunn School. "He had this air about him: 'Teach me! Teach me!'"

Tong caught up quickly. By his sophomore year, he had started a philosophy club at Dunn. A Catholic priest in Egypt had introduced him to philosophy, loaning him books written by Friedrich Nietzsche and other philosophers and theologians. Through the readings, Tong came to fall in love with the subject. He viewed it as a way of life, he says. He imagined philosophy as a tool that would help people deal with difficulties, to see beyond their own experiences, and to confront the damaged world that they live in.

Yet while he loved the education and the experience he was receiving in the U.S., Tong also felt guilty. Here he was in a

2005

Tong takes a writing course for refugee children taught by Brooke Comer, an instructor at the American University in Cairo. She steers him to her alma mater, the Dunn School, a small college-preparatory school near Santa Barbara, California, the first formal school he has attended. Meanwhile, a peace agreement is signed in Sudan, formally ending its long civil war.



Megan Morr

2007

Tong founds the Philosophy Club at the Dunn School. In Sudan, fighting continues despite the peace agreement, especially near the oil-rich border that separates northern and southern Sudan.



Life cycles: (from left) A shepherd watches over his flock; sleeping huts designed to withstand South Sudan's rainy season, which can last more than six months.

"There is nothing as painful as having something here, and knowing people back home don't have it."

wealthy American city, enjoying white chocolate mocha and *The Daily Show with Jon Stewart*. There were paved roads and efficient means of transportation. America was a place where "distance is defeated" and "time is humbled," he says. He had his dream. He was in school. But he missed singing to the cows, the closeness to nature, the thoughts of the sun. "There is nothing as painful as having something here," he says, "and knowing people back home don't have it."

With members of the Philosophy Club, Tong talked about the tension he felt, what he called his own "education crisis." "I'm trying to reconcile my privilege here in America with the hardships back in Sudan," he had said. His friends told him they all should do something to help. Members in the club looked deeper into the history of the country and the conflict. Although a new peace agreement was signed in 2005, Sudan was ravaged by its long war. Millions remained displaced, and the fighting over resources continued, including among the tribes in southern Sudan. In 2011, the southern region gained independence, becoming the nation of South Sudan. But an estimated 80 percent of the new country's population was illiterate.

Tong, meanwhile, continued to wrestle with a way to bridge his past with his present. He ultimately ended up wanting for Sudan what he had always wanted for himself: education. "We need education to give us the tools to confront the trauma of the almost half a century of horrors and hardships, and to create a drama that inspires us and that helps us overcome the trauma to build a better world," he says.

From the school Philosophy Club in 2008 sprang the nonprofit *SElFSudan*. Tong, its founder, was seventeen years old.

With the help of Dunn teachers such as Avery, Tong and other students developed a vision, a strategy, and a plan to raise awareness for the nonprofit and the conditions in Sudan. By his junior year of high school, Tong was traveling around the country to speak about life as a refugee and the need for education in southern Sudan. One of those speaking engagements was at the Duke Islamic Studies Center, which introduced him to Duke and ultimately led him to enroll at the university.

While pursuing his studies at Duke, where he is a Reginaldo Howard Memorial Scholar, Tong continues to raise funds through events and letter-writing cam-

paigns. *SElFSudan* has now raised more than \$40,000 for the construction of schools.

After he finishes his degree, he plans to pursue a Ph.D. in philosophy. But if all goes according to plan, students in Ayeit will be opening their books in a newly built school long before then. "It is my belief that education is the only tool of which Sudan will be liberated from war," he says.

Tong carried this message with him when he returned to his home village in 2010 and was reunited with his father. Lueth, still the village chief, helped his son organize a series of meetings with community leaders.

Though the Dinka tribe was considered to be "a headstrong culture resistant to change," Tong says, the village leaders seemed ready for change, and they certainly wanted a school. They agreed to give *SElFSudan* land—and not just any land, but the land where the village's collectively owned cattle camp sits, the most sacred land in the village.

"That gave me the sense of the gravity of the matter and how big of a need a school is and how committed the community was," Tong says.

2008

Tong founds *SElFSudan* to raise money for the construction of schools in Sudan. He visits Duke as a guest speaker of the Duke Islamic Studies Center.



Sudan photos courtesy of *SElFSudan*

Summer 2010

Tong returns to his home village in Sudan for the first time since he was five years old and is reunited with his father. Village leaders agree to enter into a partnership with *SElFSudan* to bring the first school to the village.



It takes a village: Construction of Malualdit Liberty Academy put members of the Dinka tribe to work and used mostly local building materials; Tong founded SELF*Sudan* when he was seventeen.



Megan Morr

But Tong didn't want SELF*Sudan* just to raise money and put up a building. Other organizations have tried building schools in undeveloped areas, with notably mixed results. In 2011, for example, CBS' *60 Minutes* alleged that the Central Asia Institute—the organization that Greg Mortenson, author of the best sellers *Three Cups of Tea* and *Stones into Schools*, co-founded to build schools in Pakistan and Afghanistan—mismanaged millions of dollars of donations, leaving many schools abandoned or used for other purposes—or never built at all.

But Tong says the venture between SELF*Sudan* and Ayeit is different because it is based on true partnership. Tong and village leaders agreed that SELF*Sudan* wouldn't aim for its presence in Ayeit to be sustainable; instead, the nonprofit would work to be dispensable. "This means we build on the community's proven capacity and potential, and we only provide what is needed," Tong says.

Under the "dispensable" plan, SELF*Sudan* is providing the initial capital costs to build a school facility, which will comprise eight classrooms, a library, and teachers' offices. The nonprofit will train the teachers, equip the facilities, and develop a curriculum. And to oversee construction and manage its operations in South Sudan, SELF*Sudan* hired three teachers, including two former headmasters, who had fled Ayeit during the war but returned to work for the nonprofit.

But the village would own the school; and after six years from the school's opening date, SELF*Sudan* would be completely out of the picture and the village would single-handedly operate the school.

To create jobs and pump money into the local economy, SELF*Sudan* agreed to buy nearly all of the brick and other construction materials from people within the village. Village leaders also pledged that they and other community members would sell cows to establish a Community Development Fund. This fund would give community members loans to start businesses or subsidiary projects such as a collective farm, a grocery store, or a grain-grinding store, which would generate funds for the school. "This signaled to me [they were ready] to transition from dependence on cows for livelihood to dependence on education," Tong says.

Not everyone was so convinced. When Tong met with education officials of his home state Warrap, they told him his plan wouldn't work. They said a culture of dependence had been created during the decades of war, and people expected non-governmental organizations to do everything. If you don't work with an NGO, they warned, you're not going to get the support you need.

"So in a sense," Tong says today, "I'm trying to prove the education officials wrong."



hen Tong was growing up, his mother told him "grand stories" about his life to help him "rise above the realities of the present condition," he says. When Tong

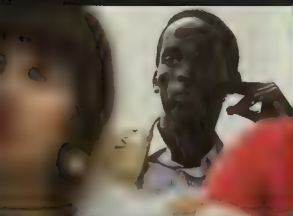
longed for a better life—with no school to attend, his homeland torn by war, his father in hiding, and his family cast out in the slums of Khartoum—his mother told him he was a prince and that his stays in the refugee camps were just temporary stops. "You've got a palace waiting for you," she often told him.

And so he does. Construction on SELF*Sudan*'s first school, the Malualdit Ayeit Liberty Academy, began last summer. Though peace remains tenuous, Tong will return to South Sudan this summer to open it, with classes beginning in the fall. It'll have an enrollment of seventy students. Leaders from seventeen other villages have already contacted Tong and expressed interest in joining with SELF*Sudan* to build schools in their own communities.

"I am the sum of many people. The Dunn School, Vivianna, Bashir—these people are all my creators," Tong says. "The school itself is not an obligation but an extension of that shared support and expectation and encouragement and faith..."

"And if you can conceive of a way to change the world, why not try? Anyone can at least try." ■

Crayton is a writer in Duke's university development office.



Megan Morr

Fall 2010

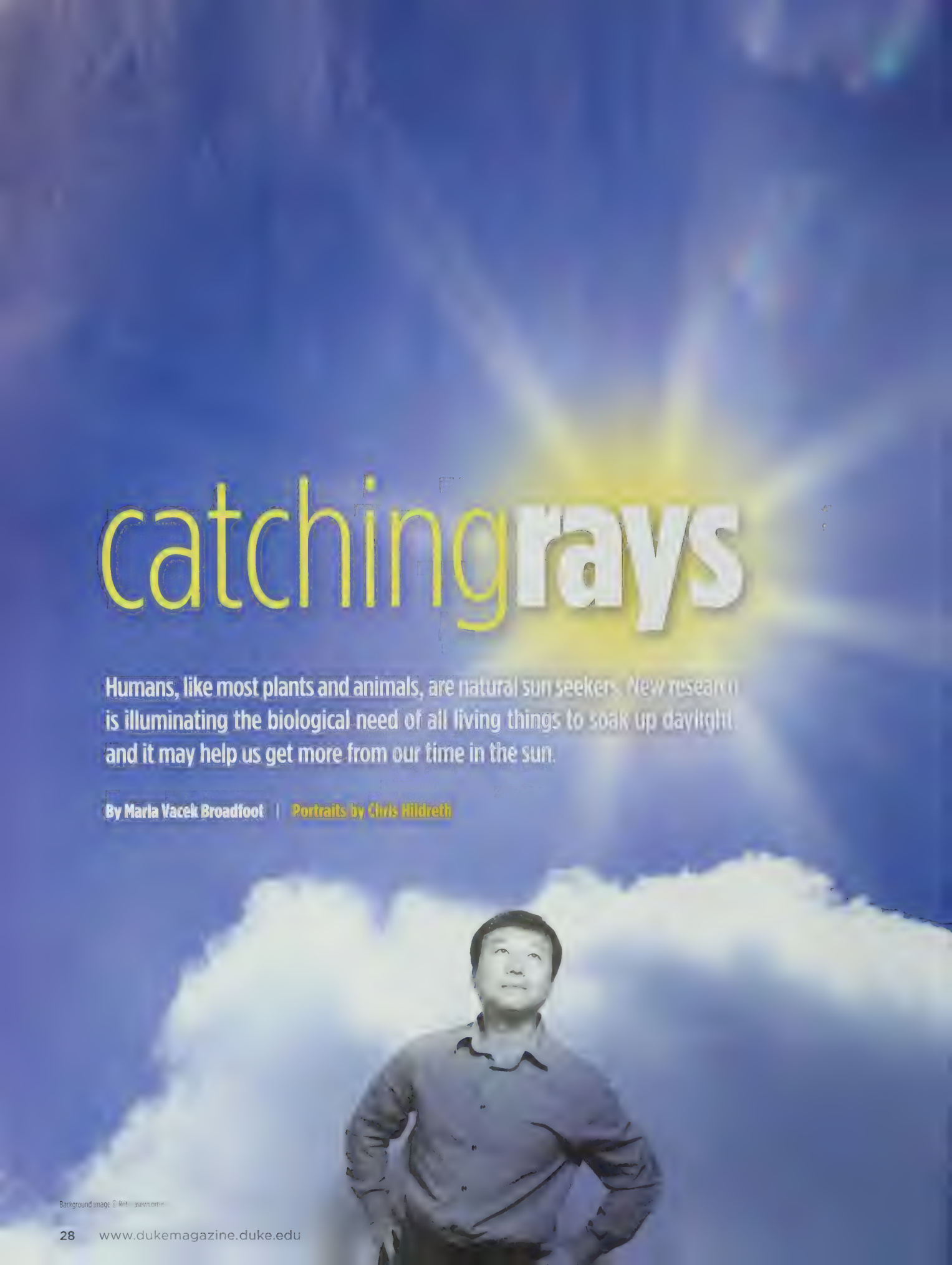
Tong enrolls at Duke as a Reginald Howard Memorial Scholar.

Summer 2011

South Sudan becomes an independent country, and construction on the Malualdit Ayeit Liberty Academy begins.

Summer 2012

Fighting breaks out along the oil-rich border between Sudan and South Sudan; peace talks are ongoing. Tong plans to return to Ayeit to open the village's first school, with classes beginning in the fall.

A man in a dark blue button-down shirt stands with his hands on his hips, looking up at a bright sun in a blue sky with white clouds. The sun is positioned in the upper right, casting rays across the sky. The man is in the lower center of the frame.

catching rays

Humans, like most plants and animals, are natural sun seekers. New research is illuminating the biological need of all living things to soak up daylight, and it may help us get more from our time in the sun.

By Marla Vacek Broadfoot | Portraits by Chris Hildreth

During the dog days of summer, millions of us migrate to the nearest watering hole or beach-front property to have our fun in the sun. We may not realize it when we are lounging by the pool or bouncing a beach ball around, but those seemingly mindless activities actually fulfill a primeval pattern connecting all living things to the sun. The pull of this celestial orb is emotional, spiritual, and physical—commanding the reverence of ancient Greeks and modern-day students alike. So why are we so drawn to light?

For us humans, sunshine triggers our brains to produce feel-good chemicals and helps us maintain a good biological rhythm. As days get shorter, the lack of sunlight brings on the winter doldrums or even full-blown depression, causing many people to sleep more, eat less, and withdraw socially.

But that connection with light is hardly unique to our species. In fact, few living creatures could function without light. The sun's rays trigger profound

changes deep beneath the surface of organisms as dissimilar as fungi, ferns, and fish. Special light sensors on the leaves of a plant or in the eyes of an animal capture sunlight and translate it into biochemical messages crucial to survival. These instructions can direct a plant to grow taller, tell a pathogen to evolve new properties, or help a baby start sleeping through the night.

The cause and the effect are clear, but scientists are beginning to uncover the many steps that lie in between. Their findings may not only help us understand light's effects deep within our bodies, but also enable us to harness its power for our own purposes. At Duke, Meng Chen, Nicolas Buchler, and Debra Brandon are among dozens of researchers engaged in studies related to light. Though their subjects and methods are different, these three researchers are finding surprising ways that light matters to all kinds of living things.



Illuminating research: Duke professors Meng Chen, Nicolas Buchler, and Debra Brandon see the power of light in different ways.



Of all living things, plants are undoubtedly the most susceptible to the whims of the sun. Unlike animals that can move if they find themselves in an environment that is too dark or too crowded, plants are stuck in one place.

"They don't get to pick where their seed is going to land, so they have to use a different strategy," says Meng Chen, an assistant professor of biology at Duke. "Plants monitor their environment and change their own physiology in order to adapt and maximize their ability to survive in a specific location."

It is also their ability to adapt at a developmental level that sets

It Isn't Easy Being Green

plants apart. In animals, the blueprint of the body—where to put the tail, the arms, and legs—is all laid out in the darkened environs of the embryo. In plants, the real development doesn't happen until they see the light of day. If they detect sunshine, they'll start laying the groundwork to turn it into energy. If they emerge under the shade of a canopy, they'll sprout a limb to seek out more light.

"...we may be able to use our work in plants to actually get at the basic principles of how cancer works in humans."



"Light controls everything—whether a plant needs to turn green, when to flower, how much to grow, when to grow," says Chen, who has been studying the effects of light for the past ten years.

As Chen explains it, plants use light in two different yet interconnected ways: as a source of energy and as a source of information. Light cues tell a plant when to germinate or when to grow, or they can direct the production of tiny structures known as chloroplasts that turn light into energy. This process of turning sunshine into fuel is photosynthesis, a term that may conjure memories of grade-school biology. Yet little still is known about how it works.

"We have no idea what is turning plants green," says Chen. "We know it is the chloroplasts, but we don't know how plants make chloroplasts—how that signal from light ultimately gets transmitted and translated within the organism to turn a plant green."

When he was a postdoctoral fellow, Chen discovered a key character in this colorimetric cascade. He did so by treating plant seeds with a powerful chemical that introduces defects into their DNA

and watching to see whether any of the resulting sprouts failed to respond to light and turn green. After looking at 24,000 seedlings, he finally found what he was looking for—a plant as white as milk. Chen then spent the next four years isolating the mutated gene,

which he named *Hemera* after the Greek goddess of day.

Hemera specifically responds to the colors red and far-red, a segment of the visible spectrum that lies between red and infrared light. It is one of many such light-signaling molecules that plants use to capture all the colors of the rainbow. Because each color represents a different environmental reality, plants can use the information transmitted through these molecular entities to gauge and respond to the world around them, much like we would use the weather report to decide whether to grab an umbrella or a heavier coat. For example, when *Hemera* is turned on

by red, the plant sees an open field with plenty of direct sunlight. When it is turned off by far-red, the plant sees shade, with all of the red light being soaked up by leaves overhead.

Having discovered one link through *Hemera*, Chen and his colleagues now are generating more blind plants to see whether they can piece together the entire chain of events connecting light to behavior. They've already found another gene that can make the albino *Hemera* mutant plant green again, essentially restoring sight to the blind. Chen named it *Son of Hemera*. Once scientists fully understand how plants respond to light, they may be able to harness the properties of photosynthesis to generate novel biofuels or alternative sources of energy. But Chen glimpses an even bigger goal on the horizon: solving the biological puzzle of cancer.

The unlikely jump from plant biology to human disease underscores the reality that plants and animals still have a lot in common, despite eons of evolutionary separation. Chen sees a possible similarity in the way they physically arrange their cell's genetic programs or genomes. Molecules that manage a plant's response to light seem to reside in special pockets within the cell, called photobodies. The human counterpart of these molecules, which evolved to respond to the cancer-causing damage from UV rays, sometimes resides in similar structures called nuclear bodies.

"It taps into what I think is the most important question in biology. At this point we have sequenced the genome of many organisms, but knowing the genes is only giving us maybe 10 percent of the story," says Chen. "To get at the rest of it, we have to understand how the genome is physically arranged and how that arrangement impacts things like responding to light or turning into cancer. Therefore we may be able to use our work in plants to actually get at the basic principles of how cancer works in humans."

In the end, these nuclear bodies could be serving as a meeting place where all of the incoming signals—cues such as light, temperature, or the presence of particular hormones—are integrated into a common message. Researchers already know, for example, that plants use light and other signals to measure the length of the night, which tells them whether it is spring or fall and, consequently, when they should produce flowers. Every day, they use this information to reset their internal clock, a circadian rhythm that calls all the cellular shots for twenty-four hours until the sun rises again.

Though the circadian clock was first observed in plants, researchers have since shown that animals, fungi, and some bacteria also have an internal timekeeping mechanism that coordinates their physiological processes. This free-running clock knows when to turn on “day genes,” messages in our DNA that when translated can raise our body temperature, get our blood pumping, and make us more alert. It also knows when to turn on “night genes,” which lower our blood pressure, suppress our digestive system, and dose us with hormones to help us sleep.

From an evolutionary standpoint, the circadian clock is as old as the hills. But if you go back a few billion years, you could probably find a time when the clock didn't exist. Back then, the inner workings of our single-celled ancestors were completely dependent on external cues. If there weren't a bright light shining down, the day genes wouldn't come on, even if it was the middle of the day. Did that light-dependent lifestyle create a problem for organisms, and if so, is that why we evolved to carry a clock deep within our DNA?

That is the question that motivates Nicolas Buchler, an assistant professor of biology and physics who studies the evolution of the circadian clock. He and others in the clock field believe that organisms with a free-running clock have gained an internal representation of what's going to happen in the external world. “So at four in the morning, your body could start getting ready for sunrise at six,” says Buchler. “That extra preparation could be enough to give you an advantage over someone who can only respond the moment the sun comes up.”

In other words, the early bird gets the worm.

Buchler cites a number of experiments that support this theory. In one such study, researchers genetically engineered cyanobacterium to have clocks that ran longer or shorter than the normal twenty-four-hour period. The bacteria with the screwed-up clocks didn't grow as well, showing there was a cost for bad timing.

But it was another study—a computer simulation—that drew Buchler into the clock field. In the experiment, researchers modeled a virtual population of 100 cells that responded to light. They then mimicked natural selection, picking out the computer-created cells that responded to light in the right way—such as turning on

their day genes at the right time—and then looked to see whether those cells had an advantage over the rest of the population. Initially, their results suggested that the evolved cells didn't dominate the others. But the researchers soon realized the problem was that the simulation modeled a completely artificial source of light—akin to a fluorescent lamp controlled by an on/off timer. So they tweaked their system to include data gathered from a photometer placed in the middle of a forest. Sud-

Like Clockwork

denly, those free-running clocks—often called internal oscillators because they oscillate around the clock—emerged.

“They just left the paper at that, with no explanation for why having this natural sort of light was key to the evolution of these internal oscillators,” says Buchler. “But as a scientist, I just had to know what it was about noisy, variable light that played such a pivotal role.”

Unlike the light of Edison's creation, natural light doesn't turn on and off with the flick of a switch. Natural light is inconsistent—think stormy days and full-moon nights—and generates all kinds of mixed signals for a plant or animal trying to find a rhythm. Buchler's hypothesis is that a circadian clock gives an organism an internal momentum, a type of inertia that filters out the noise to give a clear signal of day or night. A synthetic biologist by trade, he also is using computers to test his theory.

“The curse of being a synthetic biologist is you are dealing with an artificial system. There are a lot of things we don't understand, so we have to do a lot of troubleshooting,” he says. “In contrast, if you are a geneticist, you have a system that is already working. Evolution has done all of the work for you.”

To model evolution on a computer, Buchler first has to build what he calls toy models, a simple circuit of two genes capable of oscillating around the clock. He then



**the
early
bird
gets
the
worm.**



will add in a number of real physiologic and environmental parameters to determine which conditions are necessary for the circuit to start oscillating. For now, Buchler will be happy if he can get his toy models to oscillate every two hours, but eventually he hopes to have a working model of the full twenty-four-hour cycle of a circadian clock.

Once he has perfected a toy circuit, his goal is to build it in yeast—a clock-less organism—to see whether he can use natural stimuli to recapitulate the evolution generated on the computer. Last year, Buchler won the NIH Director's New Innovator

Award to fund the project, which he titled "Rewiring the Yeast Brain: Redundancy and Interference in Gene Regulatory Networks." In the proposal, he likened his toy circuits to a "brain" that could be transplanted into yeast to model how pathogens might evolve and rewire their gene networks to respond to attack from the host immune system or antibiotic treatment.

Buchler says that understanding the evolution of responses to environmental cues could have implications that go far beyond simple organisms. For example, he wonders if the advent of electricity—which allowed people to defy nature's clock and create light at any time—could alter the circadian

clock in a way that can't be turned back. Studies have shown that medical-school residents who work back-to-back shifts with little exposure to the outside world are slower to react and more error-prone than in normal cycles. Similarly, people traveling overseas can feel out of sorts until they are exposed to enough day-night cycles to adjust their internal clock or, more often, return to their home time zone.

"Now that we have a bit of control over our clock, I imagine there could be benefits to using technology to reset our alarms, but there could be consequences, too," he says. "It is an interesting evolutionary question to think about. Because the circadian clock is integrated into so many different processes—behavior, metabolism, physiology—altering it will undoubtedly have long-term effects."

Though light may be vital for setting our daily rhythms, humans spend their first nine months of development completely in the dark. When babies emerge into a world of light, it can take time for them to adjust. And in no case is that time more critical than with babies born prematurely. For many years, it was standard practice to care for infants in neonatal units in complete and total darkness. Keeping babies in the dark protected them from the sometimes negative effects of bright light—which could stress out babies whose blink responses had not yet matured—and mimicked the environment of the womb.

But researchers such as Debra Brandon, an associate professor of nursing at Duke, have argued this approach doesn't exactly recapitulate life in the uterus, where exposure to the mother's own circadian rhythms can set up a similar pattern for the baby. As Brandon explains, the most vulnerable and least mature organ in preemies is the brain, which also happens to be the center of circadian development. Because circadian patterns are linked to a healthy immune system and restful sleep patterns, she wondered whether using light to jumpstart the circadian clock in preemies could move them out of intensive care and into the arms of their parents faster than usual.

"You can't treat preemies like fetuses anymore because their bodies are developing differently than if they were in the womb, but they're not full-term, either," says Brandon. "It's tricky because babies are supposed to develop in a near-darkness environment, but they are also supposed to develop in a circadian environment."

Brandon, a trained neonatal specialist, has always been fascinated by the extreme differences between the setting in which a baby has developed in the uterus and the one into which it is thrust after birth. "Nurses, by and large, control that new environment, because we're in there providing care 24/7," she says. "I've always wondered if we could maximize outcomes for our little patients by manipulating that environment in ways that don't cost a lot of money and are not invasive."

One way to prepare preemies for life in the real world is to expose them to the same cycles of light known to reset the circadian clock in grownups. Brandon's dissertation research tested this approach by giving day/night-cycled light to three groups of babies at three different postnatal stages. She found the two that received early cycled light put on weight more quickly and trended toward having shorter stays in the hospital but showed no advantage in short-term development.

In a follow-up study, Brandon looked at the effects of light on smaller, sicker babies. This time, she saw no differences in weight gain, length of hospital stay, or long-term developmental outcomes. The last variable to test is sleep, likely

the best and earliest indicator that circadian rhythms are beginning to develop. Brandon has already amassed a mountain of data on sleeping preemies, and she hopes the analysis will reveal a trend of more consolidated, restful sleep in the ba-

Into the Light

bies exposed to cycled light. Even barring the sleep results, Brandon has been pleased with the outcome.

"Other people have hypothesized that babies who are kept in near darkness have better developmental outcomes, and my data would not support that hypothesis," she says. "In fact, none of the research that has been done with cycled light has shown anything that is harmful, only a trend toward positive outcomes."

Based on the work of Brandon and others in the field, the American Academy of Pediatrics now recommends the use of cycled light in the care of premature babies. However, Brandon estimates that half of nurseries still operate in darkness, as it can take decades for new ideas in medical care to take hold. In the meantime, she is working to solidify her own findings by adding in other factors that could be affecting the circadian clock in her subjects, such as hormones in mother's milk that could trigger similar circadian patterns.

No matter how much Brandon and her colleagues learn about the effects of light on our underlying biology, there are even more questions yet to be answered. For example, are there other ways that light affects human behavior? If light is so important, how do organisms like cave fish manage to survive in complete darkness? And will we ever know exactly how sunlight turns plants green?

Researchers no doubt will continue in their endeavors to illuminate these mysteries of light, just as earthly creatures will continue to be drawn to the sun's glow. ■

Broadfoot is a freelance science writer and former geneticist. She lives in Wendell, North Carolina.

"Other people have hypothesized that babies who are kept in near darkness have better developmental outcomes, and my data would not support that hypothesis."





PRESENT HISTORY

A multiracial group of Duke students travel the civil rights trail to learn about a history that hasn't entirely vanished into the past.

We were still about forty miles away from Memphis when a window blew out on the bus. Ever since we'd crossed into Mississippi, headed northwest from Birmingham, Alabama, a quiet unease had settled over our Carolina Livery minibus. Our trip, the inaugural Roots to Rights alternative spring-break venture between Jewish Life at Duke and the Mary Lou Williams Center for Black Culture, was at one point scheduled to stop in Jackson for a night. But even just the simple fact of being in transit in Mississippi lent a sense of foreboding. "Bad things happen when I'm in Mississippi, I'm just saying," mused Elisabeth Pitts, a junior from Oklahoma. Much to most everyone's relief, there wasn't enough time to include it as a destination.

It had gotten to be late afternoon as we cruised I-22. Some of the eleven students had fallen asleep, some were reading, some were staring out the window, perhaps thinking about the skeletons of the Freedom Riders' bombed-out Greyhounds that we'd seen just hours earlier in the Birmingham Civil Rights Institute. While each state in the South bears its share of the ugly journey this country staggered through toward its ongoing struggle for racial equality, few conjure the

horrors and stereotypes of hate and ignorance the way Mississippi does. Mississippi is too much to unpack in a six-day, four-state trip. Simply driving through would be a small mercy.

When it happened, it happened fast. A quiet pop, the tinkling of glass, and two students jumped out of their seats. Just like that, an

entire window shattered.

Our bus driver, the sixty-five year-old Vernon Bullock, deftly pulled onto the highway shoulder. Somehow we'd hit a bump in the road that caused the entire windowpane to splinter and burst. The students cleared out of the affected seats; fortunately,

**"TO BUILD RELATIONSHIPS YOU NEED
SHARED EXPERIENCES."**

there were only a few light scratches. Chandra Guinn, director of the Mary Lou Williams Center, began cleaning up the shards of glass while Rebecca Simons, director of Jewish Life at Duke, began snapping photos and calling the bus com-



WATCH
FOR ICE
ON
BRIDGE

ALABAMA
RIVER

NO
PARKING
ON
BRIDGE

SPEED
LIMIT
20

BRIDGE

LIKE JUSTICE ROLLS DOWN LIKE WATERS
AND RIGHTEOUSNESS LIKE A MIGHTY STREAM
MARTIN LUTHER KING JR.

Background: View of the Edmund Pettus bridge, Selma, Alabama. Insets, clockwise: The class at the Southern Poverty Law Center in Montgomery, Alabama; Ian Zhang contemplates a memorial at the National Voting Rights Museum in Selma, Alabama; Ashton Pemberton leads the group across the Edmund Pettus Bridge.



Background: Exterior of garage murals depicting moments in history at the National Voting Rights Museum in Selma, Alabama.

Above, Elisabeth Pitts and Elizabeth Tobierre chat over a soul food lunch at Alcenia's in Memphis, Tennessee.

pany. There was a chance they'd be able to send a bus to meet us in Memphis, but until then, we were stuck.

The sun was setting over the highway. Students peeled off and on the bus, not sure what to do. The makeup of our deliberately mixed company—three Jews, six blacks (including one from the U.S. Virgin Islands), one Asian American, and one Chinese student from Beijing—was somewhat forgotten in the chaos. That a bus ride such as this one would have been a target for hate crime just fifty years ago—within the lifetime of the parents of nearly everyone on the trip—was too obvious to mention. Everyone braced for a slow creep to Memphis with a missing window. The evening forecast called for a rain-storm. Dark clouds began to stretch on the horizon.

And then an emergency tow truck pulled over.

Out of the cab stepped a skinny, scraggly white man with an even skinnier, scraggly goatee. His trucker hat and two-tooth smile completed the caricature. He immediately shook the dark-brown hand of our pinstripe-suited driver (who, we had recently learned, used to party with James Brown in the 1970s) in a moment that could have been prickly in the never-quite-as-distant-as-we-hope past. The trucker brought over some rolls of duct tape, with which he and Bullock taped up a makeshift window using cut-up garbage bags. After about twenty minutes, we had enough coverage to get us to Memphis, and we parted ways.

On a trip packed with museums and meetings, sometimes what sticks with you are the things that happen off-hours. Some-

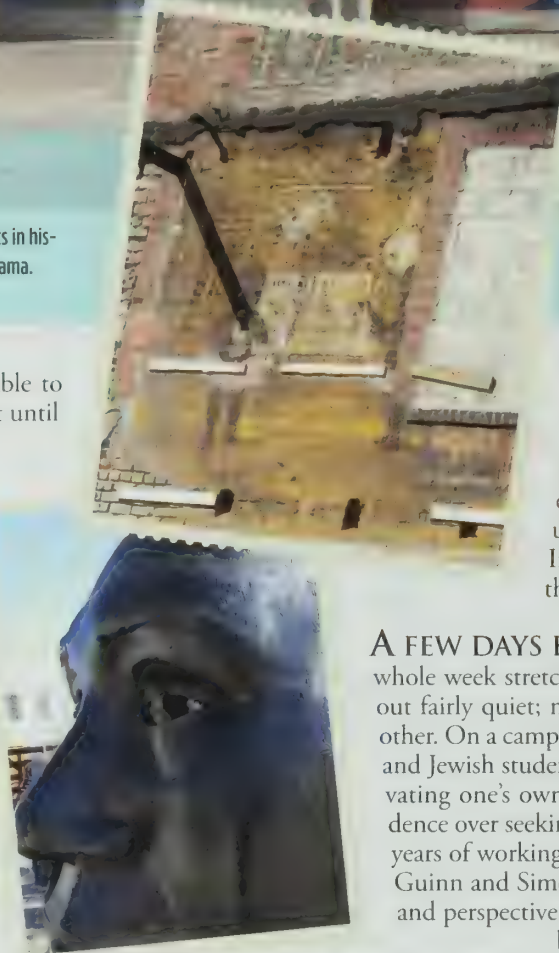
times the South gets painted monochromatically, but it is full of odd little contrasts that surprise you. And sometimes in the Technicolor South you don't even notice the weight of racial history until in one moment it literally explodes. In any case, this wasn't the biggest jolt of the trip. Not by a long shot.

A FEW DAYS EARLIER, we'd been in Atlanta, with the whole week stretching in front of us. The bus had started out fairly quiet; not many students arrived knowing each other. On a campus where the percentage of black students and Jewish students each hovers around 10 percent, cultivating one's own cultural identity can often take precedence over seeking out other communities at Duke. After years of working side-by-side in Student Affairs at Duke, Guinn and Simons were struck by the similarities in size and perspective of their student constituencies. The two began hatching a plan to bring their students together using a collaborative moment in history as the fulcrum: the civil rights movement.

It was a natural choice. A road trip through the Southeast, as the program shaped up to be, necessarily placed Duke in its geo-historical context—something that can be overlooked easily as Duke expands its national and international ambitions. While the upcoming fiftieth

In Atlanta's Sweet Auburn district, students saw history in the exposed brick of black-owned businesses, top, and in a memorial to civil rights leader John Wesley Dobbs, the so-called "mayor of Auburn Avenue."

anniversary of the first black students at Duke created a meaningful prologue to the trip, lesser-known struggles, such as overcoming Duke's purported unofficial quota for Jews, came to light for some for the first time. ("I did not think of Jewish people any differently than white people. I had no idea about the Jewish struggles for civil rights whatsoever. None, zero, zilch,"





Matt Schorr and Elizabeth Tobierre trace their fingers over the names of the civil rights martyrs etched in the Civil Rights Memorial in Montgomery, Alabama.



said Pitts during the course of the week.)

Perhaps bound by a shared history of barriers to enrollment at Duke and elsewhere, blacks and Jews forged a curious alliance in Durham. N.C. Central University, for example, opened its doors to Jewish professors who were World War II refugees and barred from teaching at the Ivies. In another quirk of Durham history, Emmanuel Evans, the city's first Jewish mayor, raised the seats from his store's lunch counters to standing height to skirt state statutes that mandated separate seating

campaign and casual trips to the movies in mixed groups. She was adamant: "To build relationships you need shared experiences," she said. "If black-Jewish relations are to last, we have to get into each other's skin."

BUT GETTING INTO EACH OTHER'S SKIN might require broaching some difficult questions.

One night, for example, during a debriefing in Simons' and Guinn's Embassy Suites living room, freshman Ashton Pemberton wanted to know if his fellow travelers felt "a trickle" offended when they see a Confederate flag. (Though we hadn't been keeping track of any sightings on the trip, the similarities of the Alabama state flag and the old Georgia state flag to the Confederate flag were enough to make some people uncomfortable.) But Kaitlin Fang, a sophomore from Beijing, was confused. Why would a flag make people upset?

Sophomore Matthew Schorr and Elisabeth Pitts gamely offered a colorful, if abbreviated narrative. "That flag was supposed to rep-

SOMETIMES THE SOUTH GETS PAINTED MONOCHROMATICALLY, BUT IT IS FULL OF ODD LITTLE CONTRASTS THAT SURPRISE YOU.

for blacks and whites. Other Durham civil rights trivia surfaced along the trip, such as the true site of the first sit-in in North Carolina at Royal Ice Cream on Roxboro Road in 1957, a source of both embarrassment and pride for the Bull City.

But history didn't come alive with direct, tangible application until we sat down with Sherry Zimmerman Frank, cofounder of the Atlanta Black Jewish Coalition. Until then, the subject matter of our trip had been relegated to documentaries and museums. But Frank, a woman somewhere between the generations of the students' parents and grandparents, had been at the proverbial There, doing the proverbial It. Frank reminisced equally about time spent working with John Lewis on his first congressional

resent unity among the Southern states," said Pitts. "But the key is the Southern states were fighting for slavery," said Schorr. While she listened, the rest of the students compared notes about their multifaceted feelings toward the flag, which enjoyed a stint hanging outside of Randolph dorm on East Campus in the past year.

The conversation meandered. Days of stored feelings, observations, and questions began flowing, mostly without much direction or resolution. Some were offshoots of half-forgotten conversations that had been left behind like sweatshirts on the bus. And some, like an impromptu monologue from sophomore Elizabeth Tobierre, had clearly been germinating during time spent staring out the window and scribbling in journals.



Above: Carolyn McKinstry, a survivor of the 1963 bombing of the 16th Street Baptist Church in Birmingham, tells students to remember and teach the lessons of the civil rights movement. Left: Elizabeth Tobierre takes photos of an exhibition commemorating slaves who came from Africa to North America.

"Being from the U.S. Virgin Islands, I often find myself having this dual identity as a West Indian woman and an African-American woman," she began, launching into a thoughtful speech about the respective weights of her American and Caribbean heritages. Though the trajectory of slavery and civil rights looked different in the U.S. Caribbean, it stemmed from the same place. "I keep thinking, this is what my ancestors went through, and that goes three or four generations back."

After a few more shifts in gears, Fang jumped in again: "I've been thinking about the alternatives of the outcomes of this movement—say, if Martin Luther King wasn't religious. Or, if this wasn't in America. Would the movement still succeed?" Not an easy thought experiment. When you change the variables, you change the equation.

How would you try to explain the civil rights movement to someone unfamiliar with American history? How much of such a person's culture will remain similarly, eternally, unknowable to you?

And yet, we cling to the belief that the lessons of the civil rights movement are universal. "When you listen to a song or a civil rights speech, those passages and understandings come from a place that is so fundamental that they are not limited to people of Christian denominations or even people of Jewish faith or Islamic faith or no faith at all," Julius Jones, the lone senior on the trip, explained. "It's about having a sense of right and wrong and telling that story

in a compelling manner."

But Fang wasn't so sure. "I'm not religious. I feel like the role of religion in this whole movement makes everything easier. It integrates the whole value system.

Without religion, it's not that we don't have values—we still have philosophy, and we know what's moral or not moral. But it's difficult without this shared commonality."

A FEW DAYS LATER, we sat down with Carolyn McKinstry, a survivor of the 1963 bombing of the 16th Street Baptist Church in Birmingham, where four girls died. McKinstry was in the office staircase of her church when a bomb hit the downstairs bathroom, killing her four friends and fellow youth volunteers. She was fourteen years old.

She commented how our group was only a little bit younger than her own children. Rarely does this generation realize how close her chapter of history actually is—how, for the students' grandparents, or even parents, segregation may yet have been reality. Then again, it's not like it's something pleasant to talk about. McKinstry knew this firsthand. "Ten days, ten years passed, and no one talked about [the bombings]," she recalled.

In a small circle of folding chairs in an unremarkable office room, McKinstry described the whip-like sensation of water hoses spraying her against a wall and watching Army tanks crawl up the streets of her childhood. The 16th Street Church bombing was just one in a slew of violent events that caused the city to be

dubbed “Bombingham.” “We got immune to things; bombing had just become a way of life,” McKinstry said. “Terrorism did not start with 9/11.”

Silent, rapt, we listened as McKinstry discussed life after the headlines. “I was depressed for twenty years,” McKinstry recalled, “only, we didn’t have a name for it then. People just said, ‘Oh, she’s strange.’” The lack of communication troubled her then, and inspires her desire to talk to groups now. But above all, love keeps her going.

“We did not teach the lessons learned. Take your Bible and read Joshua 4,” she said. “We are admonished to love, admonished to forgive, but admonished to remember and to teach.” It forces you to focus on the humanity of those who committed crimes, she explained.

Before we wrapped up, she added one last thought: her admiration for the Jewish community’s ability to instill the lessons of the Holocaust in younger generations. “‘Never again’—it sounds so good, so dramatic,” she said. “Do good things. I’ll be watching.”

AND THEN THERE WAS THE LYNCHING.

On the way to Selma, Alabama, we crossed paths with the Reverend Al Sharpton and Congressman John Lewis. As we were driving from Montgomery to the Edmund Pettus Bridge, their group was completing the fifty-four mile hike in the other direction, the one which, in March of 1965, sparked Bloody Sunday and ultimately prompted the passage of the Voting Rights Act. Every year, groups march from Selma to Montgomery to commemorate the event and to protest current issues in civil rights. Sharpton and his crew spent the week exploring immigration and voter identification laws.

But we were on a different mission. Our tour guide, Sam Walker, met us at the National Voting Rights Museum, an expanded garage of sorts with the pungent smell of plumbing gone awry. Walker spoke with a nearly indecipherable Southern accent and at a clip that hardly allowed for questions. He rattled through the chain of events that led to Bloody Sunday, pausing only to polish his head with a white towel. He mentioned that as a child, he picketed after school and that

“the marches were fun, you sang all these fun songs, there was a spirit.” For the briefest moment, you could envision Walker and his childhood friends, participating in something bigger than they knew simply because it was the thing to do.

But we were short on time, and Walker had a lot to pack in. From the National Voting Rights Museum, we drove over the Edmund Pettus Bridge into town, where we stopped at the Slavery and Civil Rights Museum. Walker barked at us to line up against the outside wall with our mouths open, “bucks” to the left and “wenches” to the right. He inspected our teeth. Then he herded us into a small, dark room where we were told to imagine the smells of several months’ worth of feces, vomit, and other bodily waste accumulated on the transatlantic voyage of Africans into slavery in the Americas. We couldn’t see a thing.

Moments later, Walker brought us into a dim room, where we were told to stand on a white line on the floor. He pulled four of us, Guinn, Tobierre, Pemberton, and sophomore Savion Johnson, off the line and ordered the selected to choose another four. Upon their selection, Walker took the initial group into

another room, declaring that since these “niggers” betrayed their own kind so easily, he couldn’t trust them either. The rest of us stayed frozen on the line while we heard a scream from the other room, presumably part of the act. But then after a brief silence there was another scream, a real one, followed by a thump.

We finally regrouped in a brightly lit room, covered in memorabilia of notable African and African-American independence movements. Tobierre and Johnson emerged, visibly shaken, and told us the story. Apparently Walker continued the reenactment in the other room, where the next event was a lynching. Walker had asked the two of them to lie on the ground, and asked Pemberton to step up on a wooden platform, slipping a loose noose around his head. But the sensory overload was too much, and Pemberton blacked out. Guinn took him outside to recover.

Later, Tobierre admitted just how much watching it had affected her. “I pictured myself being a mother, or a sister, or a wife, standing there and having someone put a noose around my man, whatever I am to him. Just standing there, as a woman, and as a black woman, and not having any power to do anything,” she said. “And I wanted to cry when I thought about that because often we reflect on history but we don’t put ourselves in people’s shoes.”

At least, it couldn’t have happened to a better-spirited student. Pemberton, who has a killer Obama impersonation, was all smiles a few minutes later. “It got real. It got real for a second,” he said afterward.

THE WHOLE TRIP WAS A LOT TO ABSORB. But every now and then, new synapses would form across the shared wiring of the group. And not all of them were heavy, which perhaps was the only way to let them take hold. “So I woke up this morning, and for the first time, I finally made the connection between Obama, and, like, all of this,” sophomore Dena Kaye-Phillips gushed. Pemberton admitted that it was actually reassuring to learn about Martin Luther King Jr.’s extramarital affairs, because it was helpful to humanize him. Over dinner one evening, the group delved into the nuances that make black Greek life and non-black

Greek life so different at Duke. And at some point during the 33.5 hours on the bus that week, Schorr and Kaye-Phillips broached that

**“‘NEVER AGAIN’—IT SOUNDS SO GOOD, SO
DRAMATIC. DO GOOD THINGS. I’LL BE WATCHING.”**

most sensitive of topics with Pitts and junior Mea Warren: black women’s hair care. What does relaxing your hair mean? How often can you wash your hair? Is braiding painful? And in return: What is Shabbat? Why do Jews keep kosher? Is Judaism a religion, an ethnicity, or what?

Learning history is like glue—when wet, it sets into cracks you can’t even see, and by the time it dries, the surface and possibly the whole nature of the object has changed. The glue on this trip hasn’t finished drying yet; its coating will make itself apparent to members of this group in different ways over the years. But in the meantime, one imperative has become clear. Warren summarized it best: “We’re our own black-Jewish coalition.”

And so, in those first somber moments after Pemberton’s incident, the group headed out on foot to cross the Edmund Pettus Bridge. Quietly at first, Kaye-Phillips and Pitts, and then Warren, began singing “Ain’t Gonna Let Nobody (Turn Me Around),” which we had picked up from watching documentaries on the bus. And then, one by one, the rest of the group joined in, until the banks of the Alabama River echoed with our song. ■

Sports

Digging Deep

Duke linemen lend muscle to a well project in Ethiopia. | By Elissa Lerner

At first, the work didn't sound too difficult, particularly not for someone like Takoby Cofield. Here's a young mountain of a man—six feet, four inches tall and 310 pounds of brute force—who plays offensive tackle for the Blue Devils football team. He's accustomed to tossing around 300-pound defensive linemen every Saturday. How hard would it be to spend a few days in May digging a hole, especially when he had the help of nine of his fellow linemen?

When that hole is in rural Ethiopia—and when that hole is dug with a manual percussion drill—the answer is, pretty tough.

"We were plastered with mud," recalls Cofield, a rising sophomore. "Being at that altitude—not the heat—was hard. I was surprised—these big, strong football players were tapping out, and the Ethiopians were helping us."

But Cofield and nine other members of the Duke football team didn't travel to Ethiopia just to build their muscles. The twelve-day trip, organized by teammate David Harding Jr., was about building character—about coming together through service and shared experience. "The team bonding far exceeded my expectations," says Harding, a rising junior and returning starter at guard.

Harding spent many summers digging wells alongside his father, who operates the nonprofit Water Is Life International. David Harding Sr. was born and raised in

Ethiopia and has devoted much of his life to international service through Baptist charities. He and his wife, Merrie, started Water Is Life after spending six years raising their family in a town near Amman, Jordan. Much of their work now is focused on Ethiopia, where it's estimated half of the population doesn't have access to a sufficient supply of clean water.

The junior Harding hadn't been able to return to Ethiopia for a summer trip since before coming to Duke. It often isn't easy for athletes to participate in service travel, as summer workouts and classes typically don't allow much time away from campus. But as Harding talked with his teammates about his family's work, his passion became contagious: They wanted in. With help from his parents and others, particularly rising senior center Travis Gibson, Harding began figuring out how to take 3,000 pounds of Duke football brawn to Ethiopia.

The logistics were formidable, with passports, visas, immunizations, food, lodging, and other details to work out. He and Gibson spent as much as eight hours a week last semester planning the trip, which was supported in part by the university. "University and athletic administrators were extremely supportive in making the trip a success," Harding says.

And so, on May 4, as a solid contingent of their classmates headed to the beach for a pre-finals break, Harding and his teammates began a different journey. For some, including Cofield, it was their first foray outside the U.S. Most had little or no knowledge of Ethiopia's foods, cultures, and languages. "They speak eighty-nine different languages in Ethiopia," Merrie Harding said before the trip. "They'll need to communicate without language, and sports is good for that." Getting used to the sour-spongy injera bread served with many

"I was surprised—these big, strong football players were tapping out, and the Ethiopians were helping us."



Helping hands: Conor Irwin, left, and Dave Harding, right, walk to the well site with Ethiopian children.

DUKETICKER



CYCLING: The Duke men's cycling team won a Division II national title in the team time-trial event at championship races in Ogden, Utah. Team members **Matthew Rinehart, Matthew Howe, Beard Haugen, and Gael Hagan** outpedaled pre-race favorite MIT to win the club sport's first national title.

WOMEN'S TENNIS: Freshman **Beatrice Capra**, right, became the second player in Duke's history to be named ACC Player of the Year, ACC Freshman of the Year, and the ACC Tournament's Most Valuable Player in a single season. Capra, the second-ranked player in the nation, finished the season with a 32-5 record in singles matches and led Duke to its seventeenth ACC title. The team advanced to the NCAA semifinals, finishing the season ranked third nationally.



Jon Gardiner



Well wishers: Surrounded by teammates and villagers, sophomore offensive lineman Laken Tomlinson pumps the first buckets of clean water from the newly dug well.

Ethiopian dishes, however, was another matter.

In addition to digging wells, the team spent a few days visiting orphanages, playing volleyball with kids a fraction of their size. They handed out presents, including hats, balls, and candy. "It was troubling, seeing the type of environment these kids endure on a day-to-day basis," says Marcus Johnson, an assistant coach with Duke's strength-and-conditioning pro-

gram, who joined the players on the trip. "These three- to five-year-old kids are herding sheep and cows, carrying logs. One kid we saw, a hyena tore into him pretty good."

The experience caused Cofield to reconsider some things in his own life he previously took for granted. "There were a lot of elderly men at some of these places too, and just shaking their hands, having someone acknowledge them, was

huge," he says. "They'd been written off."

In retrospect, digging the well may have been the easy part. Choosing a location for a well is as much an art as a science, according to the Hardings. Various signs, such as the presence of subterranean termites, can indicate a good place to dig a well. For this trip, a spot near Ethiopia's Lake Langano, a four-hour drive south of the capital city of Addis Ababa, had been identified. Players spent three days getting the well operational, opening up a hole to fit a hand-powered pump. In this case, digging meant heaving a galvanized pipe back and forth to drive the hand-powered drill into the ground.

"There was a lot of huffin' and puffin'," says Johnson.

Once the well was dug, players hung a plaque reading, "Faith, Family, Future, Football." Keeping the well running will be an ongoing challenge, says Merrie Harding, who estimates that 50 percent of the wells dug in Ethiopia ultimately fall into disrepair. "The community has to feel ownership of the well," she says, noting that for Water Is Life, a well is just a starting point for working with a community on better sanitation, such as cooking with clean water and washing hands before eating. "It's about follow-through."

And that has Merrie Harding's son already thinking about next year. "I'd like to do this every summer," he says, "or maybe turn it into a friendly competition between us and Carolina."

TRACK AND FIELD: Senior **Michael Barbas** broke a forty-six-year-old school record with a shotput throw of 60 feet, 8 inches in the first round of the NCAA Championships. The throw beat a 1966 record set by **Rod Stewart** '66 and qualified Barbas for the NCAA finals in Des Moines, Iowa.

MEN'S LACROSSE: After advancing to the NCAA Semifinals for the sixth consecutive year, Duke stumbled over a familiar foe, losing to Maryland. Duke defeated Maryland en route to an ACC tournament title earlier in the season. Duke senior **CJ Constable**, left, was named the nation's top midfielder, and he and fellow senior **Robert Rotanz** were selected as first-team All-Americans.



THE SCORE

136

Number of strikeouts thrown this season by Duke's flame-throwing junior pitcher **Marcus Stroman**, which was the most in the NCAA.

In June, Stroman was selected by the Toronto Blue Jays as the twenty-second pick in the Major League Baseball draft, becoming the first Duke baseball player to be drafted in the first round.

TIME CAPSULE AGE 13 TO 21

The Contemporary Art Collection of Jason Rubell



August 23, 2012 - January 6, 2013

919-684-5133

www.nasher.duke.edu

Muse

ART

Ephemeral Fairly Tales

For her senior capstone project, Katherine Noel '12 created "Stories and Sculptures," a series of childhood fables reimagined in intricate paper cutouts. Noel was one of twenty-seven students who completed senior capstone projects through the art, art history and visual studies department.

Courtesy Katherine Noel

Reflections of a Collector

Jason Rubell '91 brings his senior-year exhibition back to Duke.

As the son of contemporary art collectors, Jason Rubell spent a fair amount of his childhood at gallery openings and museum exhibitions. By the time he was a teenager, Rubell started buying artwork that caught his eye, using money he'd made stringing tennis rackets. But he never thought of himself as a collector until his senior year at Duke.

At the urging of his art history professor, Kristine Stiles, Rubell put together an exhibition titled "A Student Collects: Contemporary Art From the Collection of Jason Rubell." At the time, the Duke University Museum of Art was housed in a former science building on East Campus, and elevating the arts was not the institutional priority it is today.

When Rubell reprises the exhibition at Duke next month, it will be on a larger stage. A prominent figure in the Miami art scene, Rubell is bringing samples of his collection to the Nasher Museum of Art, and he says he's excited to see how students today think about their place in the art world.

"Time Capsule, Age 13 to 21: The Contemporary Art Collection of Jason Rubell" will be at the Nasher Museum from August 13 to January 6, 2013. The exhibition is a nearly identical re-creation of Rubell's senior project.

"Part of my excitement about having 'Time Capsule' at the Nasher is that students will see the person behind the collection and possibly find some inspiration from it," says Rubell. "It's powerful to feel as though you can have a voice in the world of art, which is big and broad."

Since graduating, Rubell opened a gallery in Palm Beach, which was later folded into the larger Rubell Family Collection, a permanent exhibition of contemporary art housed in a former Drug Enforcement Agency confiscated-goods warehouse in

"It's interesting to think about that moment when you cross a threshold and start to call yourself a collector or a curator."

Beach company that he runs with his sister and parents.

As part of the exhibition opening at Duke, Rubell and Stiles will lead a discussion about collecting contemporary art.

Miami. He is also co-owner of Rubell Hotels, a Miami

"Kristine was the one who got me to think about all the art I'd been buying as a cohesive collection," he says. "Before that, I was just a kid who was accumulating things I liked. It's interesting to think about that moment when you cross a threshold and start to call yourself a collector or a curator."



That was then: Rubell in front of Keith Haring's 1987 nine-panel series exploring the burgeoning AIDS epidemic

Courtesy Jason Rubell

FILM

Derrick Heggans '92

Beyond the Game

As a former NFL executive and current managing director of the University of Pennsylvania's Wharton Sports Business Initiative, **Derrick Heggans** knows the inner workings of professional sports. His film distribution company, Rose Park Productions, has found a niche with some notable documentaries exploring the lives of minority athletes. The company's titles include a Golf Channel documentary on the history of segregation in golf, a history of black surfers, a look at Babe Ruth's involvement with civil rights, and a biopic of Jesse Owens. Heggans also was executive producer on *Third and Long*, a documentary about the history of African Americans in professional football, which aired nationally on CBS in December 2011.

ROSE PARK
PRODUCTIONS

Heggans' upcoming projects include a television documentary on the history of Latinos in baseball, and *Young Guns*, a sports-based reality competition show for national television. Both are slated to air the summer or fall of 2013.

MUSIC

After playing in the band Dorian Mode as an undergrad, **Winslow Stillman** '72 went on to run a music production company in Nashville and create three syndicated radio programs. He's returned to creating his own music with *Coffee Colored Eyes*, his debut CD, inspired by trips he made to Colombia. The music is a fusion of North and South American styles—he calls it "Gringo Latino"—and features an assortment of international jazz and pop players, including Grammy-nominated violinist Alfredo de la Fe.



From playing in Duke dorms to coverage in *Rolling Stone*, Delta Rae is on the fast track to success. Featuring third-generation Duke alumni **Ian** '07 and **Eric** '09 **Höjljes**, the group's sound is a raucous hybrid of rock, blues, gospel, and country. Signed by Seymour Stein (Madonna, Talking Heads, The Pretenders), Delta Rae is currently touring in support of its major label debut, *Carry the Fire* (Sire Records).

Muse is written and edited by Bridget Booher. *Duke Magazine* is interested in hearing about alumni creative works. Please send news of publications, exhibitions, films, music, and other creative works to dukemag@duke.edu.



BOOKS

A Daring Life: A Biography of Eudora Welty (University Press of Mississippi) by Carolyn Kates Brown '84. Mississippi author Welty—winner of the Pulitzer Prize and the National Book Award—mentored many of today's greatest fiction writers, including Reynolds Price '55. In this young-adult biography, Brown explores the role Welty's parents played in shaping her literary interests, her education and influential teachers, and key moments in her career as a writer.

Savannas of Our Birth (University of California Press) by Robin S. Reid '79. Reid, director of the Center for Collaborative Conservation at Colorado State University, examines the role African savannas played in human evolution; how people, livestock, and wildlife interact in the region today; and how these relationships might shift as the climate warms, the world globalizes, and human populations grow.

Getting the Best Out of College (Tenspeed Press) by Sue Wasiolek '76, M.H.A. '78, LL.M. '93, Peter Feaver, and Anne Crossman '00. Three Duke insiders—Wasiolek is Duke's assistant vice president for student affairs; Feaver is a professor of political science; and Crossman is a tutor and teacher—share advice on every aspect of college life, from impressing professors to living with roommates to earning rewarding internships. The new edition includes an introduction from Coach K.



Noah Huffman
Archivist for Metadata
and Encoding

Mary Samouelian
Doris Duke Collection
Archivist

Will Sexton
Application Analyst

CRAZY SMART

Doris Duke. What does that name mean to you?

Do you think eccentric heiress, jetsetter, or maybe "richest girl in the world"?

Think again. How about war correspondent, honorary Sioux Indian, or competitive surfer? (She learned from Duke Kahanamoku, the "Big Kahuna" himself.) It's all there in her papers.

Here in the Libraries, we're developing tools that let researchers tap into archival materials in ways that earlier generations of scholars could only dream of. Like our new interactive timeline of Doris Duke's life, with links to actual letters, photos, memorabilia, and other documents that flesh out the story of an already storied life.

The only reading room you need is your laptop, iPad, or smart phone.

That's not just smart. That's crazy smart.

Plug in with us. Support Duke University Libraries.

library.duke.edu/crazysmart

DUKE UNIVERSITY
LIBRARIES

DAA CONNECTIONS 50

LIFE'S BROAD SEA 52

CLASSNOTES 53

CLASSIFIEDS 69



Happy reunions: At left, Dana (Tyree) Frey '02 and Suzan (Park) Burke '02 reunite at a Class of 2002 party during Reunions Weekend in April. Above and lower right: Affinity groups celebrate in K-ville.

Forever

Duke

DUKE ALUMNI ASSOCIATION



Duke Alums Engage: Alumni spring into service for a community health and fitness day in central Harlem, far left, and a neighborhood cleanup day in Chicago.

www.dukealumni.com



DAAConnections

ENGAGE. CONNECT. CELEBRATE.



Megan Miller

Armaleo: Introducing students to the beauty and complexity of life's diversity

CELEBRATE

Inspiring Curiosity

Molecular biologist receives ADUTA honor.

Daniele Armaleo Ph.D. '84 has been teaching molecular biology at Duke since 1975. Students now are not just exploring the microscopic components of life, but engaging with advancements in genetic engineering and genomics. Although the research frontiers of his field accelerate ever faster, the basics of teaching undergraduates have remained constant.

"I want students to get excited about discovering the beauty and complexity behind life's diversity—the unifying principle of evolution, for example, or the unifying principle of natural selection," says Armaleo, associate professor of the practice of biology and winner of the Alumni Distinguished Undergraduate Teaching Award (ADUTA), the highest recognition that students can bestow on a teacher. The award was established by the Duke Alumni Association in 1970; a student committee makes the final determination of recipients.

A native of Rome, Armaleo arrived in Durham as a graduate student and was almost immediately thrust into the classroom,

as a teaching assistant for an undergraduate course on genetics. His initial panic of having to answer complicated questions about recombinant DNA in English was soon replaced by the thrill of helping students develop a deep, nuanced understanding of the subject at hand.

In ADUTA nominations, students noted that despite the rigor of the eight-hour-a-week lab course, Armaleo fosters an environment that encourages curiosity and camaraderie. "Perhaps his greatest strength as a teacher lies in his incredible awareness and sensitivity to the attitudes and motivations of students," wrote one. "He is particularly adept at gauging students' interest and energy levels and tailoring the flow of his class accordingly with a mixture of [genuinely funny] jokes, hands-on activity, and probing questions."

ADUTA winners receive \$5,000 with an additional \$1,000 going to a Duke library of the winner's choice. Armaleo will be recognized as part of Founders' Day ceremonies in September.

NEXTSTEPS

CONNECT New to town? Whether you're a recent grad or a recently relocated alum, join fellow Blue Devils for a Forever Duke Welcome Party in select cities this fall. Last year's get-togethers included more than 700 people in sixteen cities. To find a party near you, visit www.welcomeparty.dukealumni.com.

...

CELEBRATE Mark your calendars for two back-to-school events sponsored by the DAA. Parents and grandparents of incoming freshmen are invited to a picnic on Tuesday, August 21 (RSVP required). And join the local Duke community for a Forever Duke block party on Monday, August 28. Both events take place at the Forlines House.

...

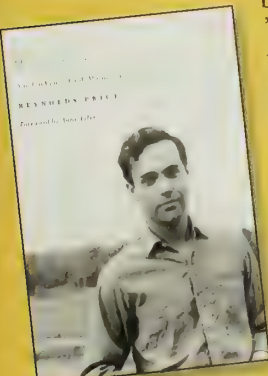
FOREVER LEARNING This fall the Duke Alumni Travel program heads to Madagascar, where the Duke Lemur Center (DLC) works with the government on conservation projects. Host Charlie Welch, conservation coordinator for the DLC, and his wife, DLC colony manager Andrea Katz '77, lived and worked in Madagascar for fifteen years. The trip itinerary includes visits to the island's central highlands and east coast rainforests, plus a stop at the tropical paradise of Anjavavy.

MORE: dukealumni.com/learn-travel

...

WHAT WE'RE READING

Midstream: An Unfinished Memoir by Reynolds Price '55. When he died in January 2011, James B. Duke Professor of English Price had written about two-thirds of this memoir. His younger brother, William Price '63, completed the volume and added his own afterword about Reynolds' final months. Price's former student, novelist Anne Tyler '61 contributes the foreword.



How are you ForeverDuke?

When **Jeff Howard** '76 first stepped onto Duke's campus as a teenager from Minnesota, the beauty of the campus "took my breath away," he says. "It was my vision of what a university was supposed to look like."

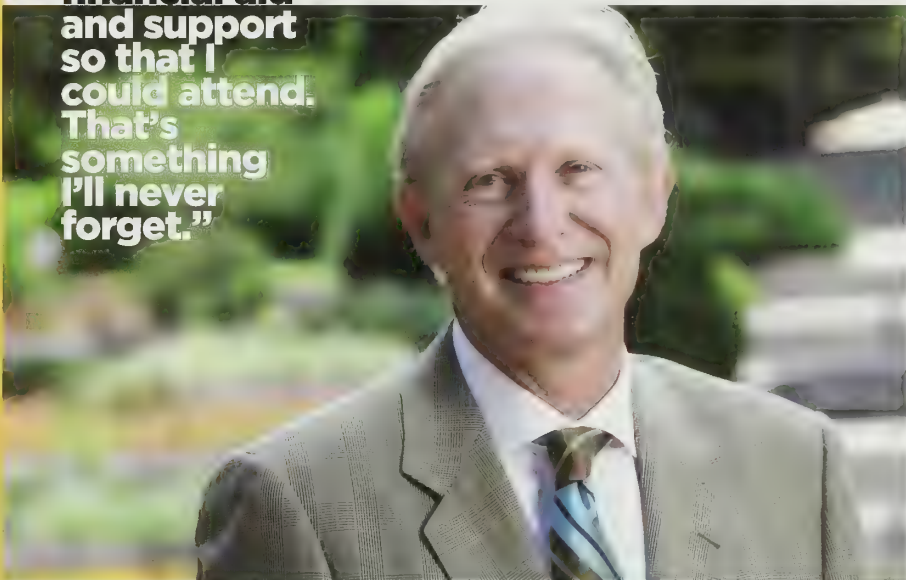
Forty years later, Howard retains that sense of wonder and pride for the place that's shaped his life ever since. It's where he met his wife—he called her on a dare during their freshman year, and they dated throughout college—and where all three of their daughters matriculated. And whether he's sharing horticultural highlights from a Duke Travel trip to Holland and Belgium this past spring or talking about his priorities as the new president of the Duke Alumni Association, Howard's enthusiasm for his alma mater runs deep.

A lawyer in Winston-Salem with Salem Investment Counselors, Howard says he feels privileged to be part of Duke's rise from a prestigious regional university to an internationally respected research institution. From a personal standpoint, he is grateful for Duke's continuing commitment to need-blind admissions, particularly in the face of escalating tuition costs.

"I was headed to a military academy but Duke offered me financial aid and support so that I could attend. That's something I'll never forget."

In his role as DAA president, Howard says he welcomes the chance to carry forward the work of previous DAA presidents Ann Pelham '74 and Hardy Vieux '93, focusing on two specific initiatives. "We're developing a vibrant online network for our alums and students to connect professionally and socially in multiple ways. And we're expanding and refining the lifelong learning opportunities for alums, both on campus and where they live."

"I was headed to a military academy but Duke offered me financial aid and support so that I could attend. That's something I'll never forget."



Presidential purpose: Howard's priorities include developing more robust online networks and enhancing lifelong learning opportunities for alumni.

Life's Broad Sea

ALUMNI IN THE SPOTLIGHT

By Bridget Booher

Melinda Wiggins M.T.S. '94 is a long way from home. The granddaughter of sharecroppers, she grew up in a racially segregated rural farming community in the Mississippi Delta. Her journey has taken her to Millsaps College (she was the first in her extended family to go), and to Duke Divinity School, where she studied feminist and liberation theology. For the past fifteen years, she has served as executive director of Student Action with Farmworkers (SAF), a nonprofit organization dedicated to improving living and working conditions for migrant farmworkers and their families.

This past March, Wiggins was invited to the White House as one of ten Champions of Change who are upholding the legacy of migrant farmworker and civil rights leader César Chávez. "It came as a complete surprise because I didn't even know I'd been nominated," she says. "It was amazing to hear President Obama talk about the legacy of Chávez and what he stood for—nonviolent direct action, institutional change, and social justice. It validated the work we are doing."

SAF traces its roots to the 1970s, when a group of Duke students spent a summer investigating conditions in North Carolina migrant camps. SAF was incorporated in 1992 and to date has assisted more than 80,000 farmworkers and their family members in gaining access to health, legal, education, and organizing support. Wiggins first came to SAF as an Episcopal Farmworker Ministry intern and became executive director in 1996.

"I do the work I do because of my family and the community where I grew up," she says. "At the same time, my family and the community don't share my views on how to make change. There is still a lot of racial prejudice and insularity there. So the White House recognition was a nice honor, but also bittersweet. It was a reminder that even though we are on the right side of history, the journey we are on is a long one."



Right side of history: Wiggins, front row third from left, with President Barack Obama and other honorees at the César Chávez Champions for Change event in March



Jeremiah Norton '00 helped design the Troubled Asset Relief Program (TARP) bank bailout while working as deputy assistant secretary at the U.S. Treasury Department. Now, as one of five members of the Federal Deposit Insurance Corporation (FDIC) board of directors, Norton focuses on the continued ramifications of the 2008 financial crisis. Among the board's key tasks are implementing and overseeing rules and regulations related to the Dodd-Frank Wall

Street Reform and Consumer Protection Act and ensuring the sustainability and vitality of the nation's community banking system.

Norton says that the FDIC, created in the wake of the Great Depression, plays an instrumental role both at home and abroad. "We see a number of policymakers in Europe and elsewhere looking to the FDIC as a model," he says. "There is wide recognition in the financial community that deposit insurance provides stability over time."

Economist **Arkady Dvorkovich** A.M. '97 has been appointed deputy prime minister by Russian president Vladimir Putin and will oversee the country's energy and industry sectors. Dvorkovich worked as an adviser to Putin during the Russian president's second term and as an economic aide to then-president Dmitry Medvedev from 2008 to 2012. He is also an accomplished chess player and chairs the supervisory council of the Russian Chess Federation.



Russian leaders: Dvorkovich, right, confers with then-President Dmitry Medvedev.

Board of Directors, 2011–12

President: Hardy Vieux '93

Secretary-Treasurer: Sterly L. Wilder '83

President-elect: Jeffrey C. Howard '76

Vice Presidents

Julie Berger Ferguson '81, Carmichael Roberts Jr. '90, Ph.D. '95

Lee H. Roberts '90, Suzanne M. Rose '94

Duke Magazine Editorial Advisory Board Representative

Sarah Hardesty Bray '72

Directors-at-large

Betsy Alden '64, D. Michael Bennett '77

Jack W. Boyd '85, Christopher Brandt '00,

Palmer Peebles Garson '79, Cecelia Gassner '94

Jason Goode '97, J.D. '00, Peter C. Griffith '78

Roseann Viscomi Hassey '83, Winston Henderson '90, J.D. '96

Edwin Howard Jr. '63, N. Shepard Moyle '84

C. Howard Nye '84, Kimberly Dawn Reed '86

Tonya Terrell Robinson '92, Mark E. Stalneckner '73

Pamela Stone '73, Paul Teller '93

John Tolma '95, Wendy Tsai '92

Kathleen Kaylor Wagoner '77

Professional school representatives

Carmichael Roberts Jr. '90, Ph.D. '95

Graduate School of Arts and Sciences

Wyman Fraser Davis '87, M.Div. '95, Divinity School

Robin Ten Kate M.B.A. '03, Fuqua School of Business

Charles F. Finley Jr. M.F. '67, Nicholas School of the Environment

Ershela Sims B.S.E. '93, Pratt School of Engineering

Amy Hepburn '97, M.P.P. '01, Sanford School of Public Policy

John A. Howell '72, J.D. '75, School of Law

Diana McNeill '78, M.D. '82, School of Medicine

Constance Cabell Kendall B.S.N. '84, School of Nursing

Judith Ann Maness M.H.A. '83

Graduate Program in Health Administration

Allen William Wicken M.S. '74, Graduate Program in Physical Therapy

Young alumni representatives

Kyle Knight '08, Katie Laidlaw '04

Heather Renee Oh '03, James Pineda '05

Faculty representatives

Alexander Hartemink '94, Associate Professor of Computer Science

Thomas W. Robisheaux '74, Associate Professor of History

Student representatives

Daniel J. Griffith '14

President, Graduate and Professional Student Council

Susan Foster '11, Co-chair, Student Alumni Advisory Board

Molly Himmelstein '12, Co-chair, Student Alumni Advisory Board

Honorary members

N. Allison Haltom '72, William E. King '61, A.M. '63, Ph.D. '70

Suzanne J. Wasiolek '76, M.H.A. '78, LL.M. '93

Gerald L. Wilson B.D. '61, A.M. '68

Presidents, School and College Alumni Associations

J. Burton Palmer Jr. M.Div. '90, Divinity School

Karen E. Grund '84, M.B.A. '90, Fuqua School of Business

Michael Pentony B.S.E. '87, M.E.M. '96

Nicholas School of the Environment

John J. Glushik B.S.E. '90, Pratt School of Engineering

Thomas William Giegerich J.D. '80, School of Law

Dale R. Shaw '69, M.D. '73, School of Medicine

Kathleen E.V. Gallagher B.S.N. '75, School of Nursing

Judith Ann Maness M.H.A. '83

Graduate Program in Health Administration

Allen William Wicken M.S. '74, Graduate Program in Physical Therapy

ClassNotes

Want to be featured in Class Notes?

Check out www.dukemagazine.duke.edu for style tips and submission guidelines, or e-mail us at dukemag@duke.edu.

Half-Century Club

1950s

Ralph "Jack" E. Kayler '52, B.D. '55 published *Jack Kayler: A Nobody Who Became Somebody*, a memoir of his life as a minister.

Frederick A. Regenold '57 released all four of his novels in every online e-bookstore, including Kindle and Nook.

Robert R. Waller '58 received an honorary doctor of humanities at the Rhodes College commencement. Waller is an ophthalmologist and president emeritus of the Mayo Clinic health system in Rochester, Minn.

Donald K. Fry Jr. '59 published *Writing Your Way* for Kindle and Writer's Digest Books. Fry explains how to create a writing process based on personal strengths

1960s

Martha A. Tovell Nesbitt '61, M.A.T. '62 was recognized by the University System of Georgia

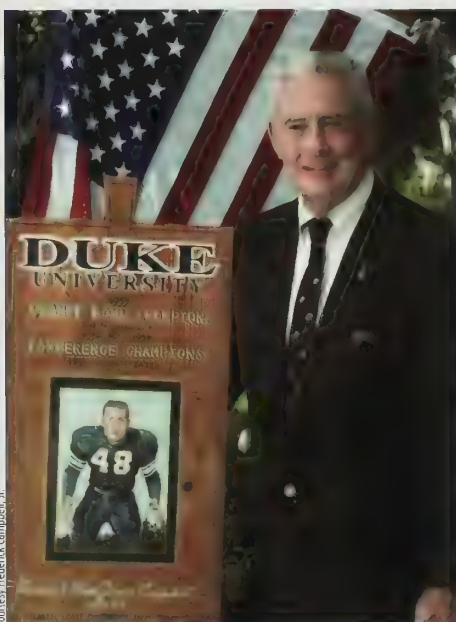
chancellor and board of regents for her leadership and accomplishments upon her retirement as president of Gainesville State College.

Jessica Richards Linden '62 won the 2011 Volunteer of the Year Suzi Award, in recognition of more than 20 years of support for Atlanta's nonprofit theater community.

Cynthia G. Smith Murphy '62 and **Westbrook Murphy** '62 celebrated their 50th wedding anniversary on June 4, 2012.

Mary Ann Bryant Oakley '62 received the 2011 Emory Medal for exceptional leadership and service. Oakley practiced law for almost 35 years, championing women's rights, minority rights, children's rights, and employment law. She celebrated her 50th wedding anniversary in September with **Godfrey P. Oakley Jr.** '62, who was part of the research team that urged the FDA to require folic acid, which helps prevent birth defects, to be added to enriched grains.

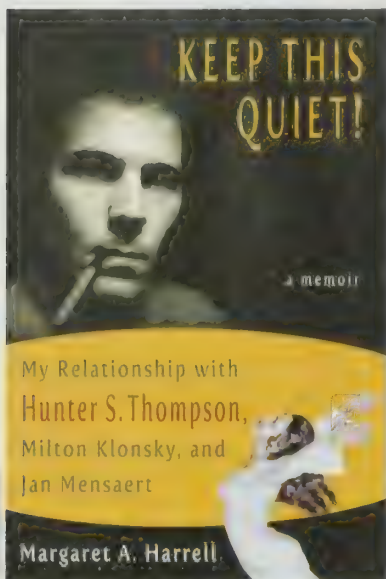
A. Morris Williams Jr. '62, M.A.T. '63 was elected to the board of trustees of the National Humanities Center. He is president of Williams & Co. and previously served on Duke's board of trustees.



Courtesy: Frederick Campbell Jr.

'55

Frederick M. Campbell Jr. '55 is a newly elected member of the Pennsylvania Statewide Sports Hall of Fame. While at Duke, Campbell helped the football team win three conference titles and the 1955 Orange Bowl Championship. He was on Duke's wrestling, track, and basketball teams as well.



'62

Margaret A. Harrell '62 published her memoir, *Keep This Quiet! My Relationship with Hunter S. Thompson, Milton Klonsky, and Jan Mensaert*. The memoir details her time as Hunter S. Thompson's copy editor.

Linda M. Garrett Whitson '62 is treasurer of Duke in Southern California, conducts admissions interviews, and is part of the local Duke Women's Forum. She participates on accrediting teams for the Western Association of Schools and Colleges and was a member of the Tri Delta Foundation board of trustees.

'63

South Carolina April 12-14, 2013

Anne "Angie" Whaley LeClercq '63 published *A Grand Tour of Gardens*. A collection of essays, the book covers historic gardens in Western Europe and the U.S.

Richard L. Watson III '67 published *Slave Emancipation and the Development of Racial Attitudes in South Africa*. He taught history for 35 years at North Carolina Wesleyan College.

'68

South Carolina April 12-14, 2013

J. Douglas Archer '68 was elected chair of the University of Notre Dame's faculty senate. He is co-chair of the Peace and Justice Studies Association and is the peace studies librarian at Notre Dame's Hesburgh Libraries.

Gayle B. Lee '68 published her first book, *AW/etizm: A Hidden Key to Our Spiritual Magnificence*. The book was cowritten with her nonverbal autistic daughter, Lyrica Mia Marquez.

Richard N. Wilkerson '68 was appointed by the Greenville County Council to a three-year term on the Greenville Area Development Corp. board. He was chairman and president of Michelin North America and worked for Michelin for 31 years. He has served on the South Carolina Chamber of Commerce and the University of South Carolina National Advisory Council.

MARRIAGES & COMMITMENTS

Suzanne Dame Lowd '69 to Dietrich W. Feltenz on Nov. 11, 2011. Residence: San Jose, Calif.

1970s

John M. Bowers '71 published his sixth book, *An Introduction to the "Gawain" Poet*. He received



Throughout Duke's history, the generosity of alumni, parents, and friends has shaped the university we know today. Your gift to Duke through a bequest intention can help build tomorrow's Duke.

A bequest intention can help advance new models of education and provide Duke's talented students, faculty, and medical practitioners new opportunities to make a meaningful difference for the world.

Your bequest can create a lasting legacy through support of scholarships, world-class teaching, and life-changing research. Let us help you define your legacy.

Duke University Office of Gift Planning

Box 90600, Durham, NC 27708

Phone (919) 681-0464

Email gift.planning@dev.duke.edu

Explore gift plans at giving.duke.edu/giftplanning

Read Class Notes online!

Go to dukemagazine.duke.edu to connect with your classmates and share your good news.

the 2012 University of Nevada-Las Vegas Foundation Distinguished Teaching Award.

Paula J. Caplan A.M. '71, Ph.D. '73 received the 2011 American Publishers Award for Professional and Scholarly Excellence (PROSE Award) in the psychology category for her book *When Johnny and Jane Come Marching Home: How All of Us Can Help Veterans*. Caplan, a clinical and research psychologist, is an affiliate at Harvard University's DuBois Institute and a fellow at the Women and Public Policy program at the Kennedy School of Government.

Frank O. Bastian '72 published an article, "Spiroplasma spp. biofilm formation is instrumental for their role in the pathogenesis of plant, insect and animal diseases," in *Experimental and Molecular Pathology*.

Doris L. Hollingsworth-Gray '72 was appointed to the National Contract Management Association board of directors. The position is for those who have made significant contributions in the field of contract management. She is senior contracts manager for Avnet Inc., in Tempe, Ariz.

'73 40th Reunion April 12-14, 2013

Douglas M. DeLong '73 has become governor of the New York Hudson Valley chapter of the American College of Physicians, the national organization of internists. DeLong is chief of general internal medicine at Bassett Healthcare in Coopers-town, N.Y.

Robert D. Peltz '73 moderated and participated in a panel discussion, "Legal Ramifications of the Costa Concordia Disaster," at the Maritime Lawyers Association annual meeting. He published the article "Has Time Passed Barbetta By?" in *The University of San Francisco Maritime Journal*. Peltz practices maritime and commercial law with Leesfield & Partners in Miami.

James W. Trent Jr. M.Div. '73 published *The Manliest Man: Samuel G. Howe and the Contours of Nineteenth-Century American Reform*. Trent is professor of sociology and social work at Gordon College in Massachusetts.

Ann B. Little Majestic '74, J.D. '82 won the 2012 Lifetime Achievement Award from the Council of School Attorneys (COSA) for exemplary leadership in legal advocacy and distinguished service. Majestic is a partner at Tharrington Smith in Raleigh and represents numerous North Carolina school boards.

Cecil James Holliman '75 received the inaugural Lifetime Achievement Award for his career in global health from the Global Emergency Medicine Academy of the Society for Academic Emergency Medicine.

Richard F. Miller-Haraway '75 won the Bishop F. Joseph Gossman Community Service

Award for devoting his life to fulfilling Catholic social teaching. Miller-Haraway is regional director for Catholic Charities and has worked for the Raleigh Diocese for 36 years.

Carl A. Patow '75 won the Weinberg Award for leadership in academic medicine at the annual Alliance of Independent Academic Medical Centers meeting. Patow is the executive director of HealthPartners Institute for Medical Education and has taught otolaryngology at the Johns Hopkins University School of Medicine.

W. Kent Fuchs '77 received the 2012 Distinguished Alumni Award from Duke's Engineering Alumni Association. Fuchs is provost at Cornell University. He has more than 185 publications and has served as a thesis adviser for 22 doctoral students and 35 master's students.

Paul M. Newby '77 received the John McNeill Smith Jr. Constitutional Rights and Responsibilities Section Award. Newby is a justice of the North Carolina Supreme Court and an adjunct professor at the Campbell University law school.

C. Allen Parker '77 was elected to the board of trustees of the National Humanities Center. Parker is the deputy presiding partner at Cravath, Swaine & Moore, practicing corporate governance, banking, and finance law. He previously served on Duke's board of trustees.

'78 35th Reunion April 12-14, 2013

John J. Coleman III '78, J.D. '81 has been named in *Alabama Super Lawyers 2012*. He fo-

cuses on employment and labor law in the Birmingham office of Burr & Forman.

1980s

Harry "Hal" C. Dietz III '80 received the 2012 March of Dimes/Colonel Harland Sanders Award for lifetime achievement in the field of genetic sciences. He researches Marfan syndrome and was part of the team that discovered that mutations in the FBN1 gene cause Marfan syndrome.

Eric Kenneth Osserman '81 was named one of the top 100 financial advisers in New York by *Barron's*. He is a managing director in wealth management at Jeffries & Co.

Sandra M. Smith B.S.N. '81 was promoted to head of the department of emergency management at Arkansas Tech University.

'83 30th Reunion April 12-14, 2013

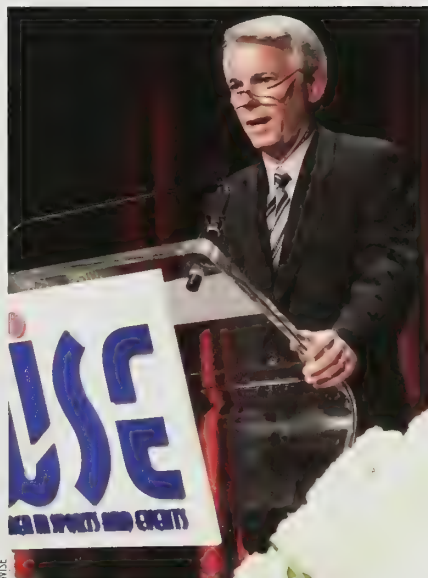
Susan A. Hodge M.B.A. '83 received the Career Woman of the Year Award from the Federation of Business and Professional Women's Club of South Carolina. She is the senior director of community engagement and academic affairs at the University of South Carolina Upstate.

Brett J. Preston '83 has been named in *Florida Super Lawyers 2012* and *Super Lawyers Business Edition 2012*. He is a shareholder at Hill Ward Henderson in Tampa, Fla.

Marie A. Borland '84 has been named in *Florida Super Lawyers 2012*. She is attorney shareholder at Hill Ward Henderson in Tampa, Fla.

Jacquelyn Michelle Hatch Howard '85 became the vice president of supply chain for the China and Hong Kong branch of McDonald's Corp.

Stephanie A. Heller Norman '87 is the co-founder and producing art director for the City



'77

Sean J. McManus '77 received the 2012 WISE Champion Award. WISE (Women in Sports and Events) presents this award to a male executive who has supported women in the workplace. McManus is the chairman of CBS Sports.



'91

Andrew Hal Rosenthal

'91 was selected as one of the top 100 amateur chefs in the country to compete on this season of *MasterChef* on Fox. Rosenthal is a plastic surgeon in West Palm Beach, Fla.

Theatre of Miami. In the past 16 years, she has produced more than 350 plays at performing-arts centers in Miami, Fort Lauderdale, and Palm Beach.

Joel W. Norwood '87 was elected chairman of the South Carolina Real Estate Appraisers Board.

He is president of Wilkins Norwood Appraisal Associates Inc.

Brian L. Rubin A.M. '87, J.D. '87 is a partner in the Washington office of Sutherland Asbill & Brennan. He was named in *Washington, D.C., Super Lawyers 2012* for securities litigation and in

The Best Lawyers in America 2012 for litigation securities and securities regulation.

'88 25th Reunion April 12-14, 2013

Joseph F. Paschall '88 was promoted to executive director at Advanced Systems Development in Huntsville, Ala. His division provides IT support to federal clients in missile defense and aerospace.

MARRIAGES & COMMITMENTS

Frances Johnson Moss '82 to David G. Tucker on Jan. 14, 2012. Residence: Jacksonville, Fla.

BIRTHS & ADOPTIONS

Anne Chuman Moss-Tucker, adopted by **Frances Johnson Moss** '82 and David G. Tucker on April 10, 2011 (Birthdate: Jan. 1, 2010)...Daniel Jason Mahler to **Jason M. Mahler** '87 and Kimberly Heath Colton on April 26, 2012.

1990s

Stacy Stansell Gardner '91 received the 2012 Distinguished Service Award from Duke's Engineering Alumni Association. She is the director of the Center for STEM Education for Girls at the Harpeth Hall School in Nashville and an adjunct professor of biomedical engineering at Vanderbilt University.

David S. Sager J.D. '91 recently joined Lowenstein Sandler in Roseland, N.J. He specializes in commercial litigation, securities litigation, and appellate law.



IRON DUKES

Building Champions




Support Duke student-athletes by becoming a member of the Iron Dukes.

Memberships start at \$100 and include a number of great benefits, such as priority seating and parking, invitations to special Iron Dukes events, and a subscription to *Go Duke the Magazine*.

The Iron Dukes
116 Cameron Indoor Stadium
Box 90542
Durham, NC 27708-0542
(919) 613-7575
IronDukes.net





Follow us at facebook.com/theirondukes

Follow us at twitter.com/theirondukes

Find us on LinkedIn

Sardar Mujeeb Shah-Khan '91 was named Greensboro city attorney by the Greensboro City Council. He previously served as senior assistant city attorney for Charlotte.

Mark W. Weisgerber '91 reported for duty as commander with the Strike Fighter Wing Atlantic Fleet of Virginia Beach, Va. His awards include the Joint Meritorious Service Medal, Air Medal with Bronze Star, and Navy and Marine Corps Commendation Medals.

Veronica Coveleskie Woodard '92 retired from coaching women's college soccer. She coached at Vanderbilt University for the past 10 years.

'93 20th Reunion April 12-14, 2013

Michael L. Guhl '93 was promoted to vice president of IT store systems at Home Depot of Marietta, Ga.

David H. Steinberg J.D. '93 published *Last Stop This Town*, a coming-of-age novel. He is a screenwriter whose credits include *American Pie 2* and *Slackers*.

Sidney Marquez Boquiren A.M. '94, Ph.D. '99 was one of five emerging composers to have work featured in "Composers & the Voice: First Glimpse 2012," a production by American Opera Projects. Boquiren teaches at Adelphi University.

James E. Mackler '94 was named to the 40 Under 40 best lawyers list by the *Nashville Business Journal*. He also was recognized as a Law Leader Rising by the *Nashville Post*. He is a partner at Bone McAllester Norton and a military defense lawyer in the Army Reserve.

Edwin Colby Walton III '94 is the senior vice president of Cooksey Communications, which specializes in public-stakeholder issues in North Texas. He was appointed to the board of directors of Leadership Fort Worth and as a member of the organization's 2011-12 leadership class.

Katharine O'Connell White '94 is the division chief of general ob-gyn at Baystate Medical Center in Springfield, Mass.

Jennifer Swanson Cohen '95 is an online SAT/ACT tutor, specializing in students with ADHD and learning disabilities. She is also president of Word-Nerd.com, an SAT vocabulary tutorial website.

Kevin P. Fitzgerald M.B.A. '95 was promoted to vice president for sales for the midmarket at PROS, a business-to-business pricing and revenue-management software company, located in Houston.

Nicole D. Smith '96 published *Sartorial Strategies: Outfitting Aristocrats and Fashioning Conduct in Late Medieval Literature*. As of the 2012-13 academic year, Smith will be a tenured professor of English at the University of North Texas.

Joseph L. Sparks '97 has joined J + Construction Solutions as a technologist specialist.

'98 20th Reunion April 12-14, 2013

Shireen K. Lewis Ph.D. '98 received an honorary degree from Rutgers University. She has

Read Class Notes online!

Go to dukemagazine.duke.edu to connect with your classmates and share your good news.

practiced law, taught at several universities, and is the author of *Race, Culture, and Identity: Francophone West African Literature and Theory From Négritude to Créolité*.

MARRIAGES & COMMITMENTS

Greta Y. Cokley '94 to Kurt Winn on Dec. 17, 2010. Residence: Dallas...**Deborah Wojcik '97,**

M.A.T. '00, M.E.M. '00 to Tim Podkul on May 29, 2011. Residence: Menlo Park, Calif.

BIRTHS & ADOPTIONS

Cecelia Stimler Antonucci to **Mary Suzanne Stimler '91** and **Robert J. Antonucci Jr. '92** on Jan. 23, 2012...Reese Elizabeth to **Jack Melnikoff '92** and Morgan Melnikoff on March 23,

'92

Dean P. Schuster '92 ran the 2012 Antarctica Marathon, finishing in seventh place. In conjunction with the race, Schuster raised more than \$30,000 for Antarctic and penguin conservation, working with nonprofits Oceanites, the Riverbanks Zoo, and Gardens of South Carolina. He documented his adventure on his website, runningwithpenguins.com.



Courtesy Dean Schuster



www.5020PINECREEK.com

\$1,795,000

Durham • Chapel Hill

Rene Hendrickson

919-313-1517

inspired modern retreat

2012...Nicholas Carr Semchyshyn to **Elizabeth Ashley Nelms** '92 and **Taras "Terry" M. Semchyshyn** '93 on Feb. 16, 2012...Dahlia Sylvianne to **John P. Rodgers** '92 and **Margaret Best Rodgers** '93 on Nov. 1, 2011...Twins, Catherine Ann and Sarah Margaret, to **Elizabeth Rocovich Cline** '94 and Benjamin Cline on Feb. 16, 2012...Peyton Elisabeth to **Maya E. Ynostroza Lanphere** '94 and Andrew D. Lanphere on Nov. 13, 2011...Dexter Jordan to **Katharine O'Connell White** '94 and Chad White on July 5, 2011...Harrison Reid to **Andrew J. Heller** '95 and Melanie Heller on April 5, 2012...Andrew Warren to **John M. Pearson** '95 and Tamara S. Pearson on May 7, 2012...Matthew Christopher to **Janet Jenkin Imp** '96, M.D. '00 and Adam Imp on March 14, 2012...Ryan Eliza to **Olivia Wendy Leembruggen Zachary** '97 and Marcus D. Zachary on Feb. 1, 2012...Hannah Claire to **Timothy P. Fitzgerald** '98 and **Nicole Ladas Fitzgerald** '99 on Jan. 18, 2012...Emilia Asbury to **Robert B. Howard** '99 and **Stephanie A. Holler Howard** '99 on March 19, 2012...Evan Cole to **John D. Snyder** '99 and Elizabeth H. Snyder on March 6, 2012.

2000s

Isis Artze-Vega '00 received a doctoral degree in higher-education leadership from the University of Miami. She is the assistant director of the Center for the Advancement of Teaching at Florida International University.

Patrick P. Oppman '00 was promoted to correspondent at the CNN International bureau in Havana. He has covered Cuba's gradual opening

to capitalism and Pope Benedict's visit to the island.

Melissa Groisman Steinfeld '01 was named an associate at GrayRobinson in Miami.

Jenna Kiziah McGee '01, J.D.'04, LL.M. '04 received the *Charleston Regional Business Journal's* 2012 40 Under 40 Award. She is a partner at Parker Poe's Charleston office, where she focuses on business litigation.

Neely M. Shah '02 has joined the software producer SAS Institute as a legal counsel.

Kimberly A. Wilson '05 joined Smith, Currie & Hancock in Washington as an associate. She focuses on government contracts, construction, commercial, and environmental litigation.

'08 Sales Representatives April 12-14, 2013

Eric J. Ojerholm '08 received his M.D. from the University of Pennsylvania School of Medicine. He will stay at Penn to complete a residency in radiation oncology.

Sidney L. Gullede IV '09 deployed aboard the amphibious transport dock ship *USS New Orleans* and helped start a team for the 2012 Crews Into Shape fitness program.

Derek F. Holt M.B.A. '09 is managing director at Startup America Partnership, a nonprofit organization focused on helping American start-ups scale their business growth.

MARRIAGES & COMMITMENTS

Mai C. Diggs '01 to **Sheldon S. Maye** '03 on



courtesy Mint.com

'02

Aaron T. Patzer '02 received the 2012 Distinguished Young Alumnus Award from Duke's Engineering Alumni Association. Patzer founded Mint.com in 2006 and sold it to Intuit in 2009. He received the

TechFellows Award from the World Economic Forum in Davos in 2008. He is vice president of product innovation at Intuit.

'10

“He’s going to be a very successful businessman one day, whether it’s with cream puffs or whatnot.”

—Jon Scheyer '10 on former Blue Devil teammate Brian Zoubek '10, who plans to open a cream-puff bakery called “Dream Puffz”

Jon Gardiner

May 5, 2012. Residence: Washington... **Beth L. Moore** '02 to **Aaron M. Rodehorst** M.E.M. '07 on Oct. 16, 2011. Residence: San Francisco... **Eric Denlinger** '03 to **Molly Hartman** '05 on March 17, 2012. Residence: New York... **Sarah M. Hawkins** '04, J.D. '08 to William B. Warren on March 3, 2012. Residence: Washington... **Blas S. Catalani III** '05 to **Rachel J. Lawrence** '05 on Oct. 15, 2011. Residence: Shreveport, La.... **Owen Donovan** '05 to **Rebecca L. White** '05 on April 28, 2012. Residence: Charlotte... **Anna R. Stark** M.E.M. '05 to Peter Fargo on July 29, 2011. Residence: Broomfield, Colo.... **Courtney E. Stull** '08 to Daniel Kelin on March 31, 2012. Residence: Philadelphia.

BIRTHS & ADOPTIONS

Nina Jocelyn to **Lindsay Vasey Barth** '00 and **Patrick Barth** '02 on March 16, 2012... Zachary Neil to **Meredith Johnson Chavez** '00 and **Gerald P. Chavez** '01 on March 30, 2012... Robbie Mitchell to **Julia Mitchell Elam** '00 and Rodney J. Elam on Nov. 5, 2011... Ezra Leif to **Laurie Sapperstein Howlett** '00 and Marc Howlett on Jan. 8, 2012... Benjamin Dupont to **Victor Ray Wyant** '00 and **Danielle Dupont Wyant** '01 on Nov. 21, 2011... Zoey Carolyn to **Elizabeth Beauchamp Brown** '01 and Brentt Brown on March 14, 2012... Mason Grant to **Julia Leonzio Potack** '01 and Robert Potack on July 18, 2011... Charlotte Carney to **Erika Carney Alders** '02 and **Jamie M. Alders** '04 on Jan. 29, 2012... Blake Harrison to **David S. Frist** '02 and **Lisa Barry Frist** '02

on Jan. 8, 2012... Avril Yi-Han Huang to **Yixin Gu** '02 and **Johnny C. Huang** '02 on April 4, 2012... Jack Keke Richards to **Hang Li** M.B.A. '02 and David Richards on April 4, 2012... Chester Nathaniel Lytle to **Anne-Marie C. Newton** '02 and **Thomas E. Lytle** Ph.D. '06 on April 16, 2012... Caleb Zinger to **Idanes Sanchez II** '02 and Stella Z. Sanchez on April 14, 2012... Ezra Russell to **Michael J. Smolow** '02 and Rachael Smolow on Jan. 9, 2012... Spencer Michael to **Priscilla Krone Schenck** '03 and Mills Schenck on April 14, 2012... Tai Alexander to **Nathan L. Carleton** '05 and Ayoola Carleton on March 7, 2012... Wyndham Campbell Welsh to **Ryan C. Welsh** '05 and **Irka K. Templeton** '06 on May 1, 2012... Grayson Cole to **Emily Vaughan Yates** '05 and Daniel Yates on March 20, 2012... Twins, George Joseph and Jean Lyon, to **Terry Shields Dirbas** '06 and Joseph Dirbas on April 16, 2012... Catherine Elise Fussell to **Christine J. Furmick** M.H.S. '06 and David R. Fussell on May 3, 2012... Eleanor Catherine to **Matthew B. Kendrick** M.Div. '06 and Anna G. Kendrick on Nov. 25, 2011... Connor James Markham to **James M. Markham** J.D. '07 and Cara O'Brien on March 5, 2012... Lydia Therese to **Addison W. Ferrell** '08 and **Julie Matthews Ferrell** '09 on April 7, 2012... Alexa Meghan to **Elissa M. Flynn McClure** A.M. '09, J.D. '09 and **Sean P. McClure** J.D. '10 on March 24, 2012.

2010s

Alexis P. Gumbs Ph.D. '10 was recognized in the Top 40 Under 40 list in *The Advocate* for her work on creating Mobile Homecoming, an inter-generational archive project that amplifies black LGBTQ experience.

Christopher Luwaga LL.M. '11 became the legal and regulatory-affairs manager of the Ugandan subsidiary of American Tower Corp.

MARRIAGES & COMMITMENTS

Christopher Luwaga LL.M. '11 to Unnie K. Wamala on May 5, 2012. Residence: Kampala, Uganda... **Melissa Rudd Mehm** '11 to Kevin Mehm on May 22, 2010. Residence: Washington.

BIRTHS & ADOPTIONS

Nora Elizabeth to **Melissa Rudd Mehm** M.B.A. '11 and Kevin Mehm on May 1, 2012.

INMEMORIAM

Mary Watkins McCollough '34 of Gainesville, Fla., on Oct. 21, 2010. She is survived by three children, including **Claude “Tom” McCollough Jr.** M.Div. '76; nine grandchildren; and 14 great-grandchildren.

Edna Beatrice Prentis '36 of Welcome, N.C., on March 7, 2012. A former columnist for *The Dispatch*, she was also an artist, author, poet, and piano teacher. She was involved with her community and her church, spending all but two years of her life in Welcome. Survivors include a daughter.

Joseph A. Scales '36 of Charlotte, on Dec. 29, 2011. He served in the Army during World War II in the Pacific theater. He then began a career in finance and eventually opened his own business, Mart Specialty Printing. He is survived by a son, five grandchildren, and four great-grandchildren.

Harold K. Terry '36 of St. Augustine, Fla., on Dec. 15, 2011. He served as a dentist in the Navy during World War II and then began a long career as an orthodontist, maintaining offices throughout southeast Florida and the Bahamas. He was also a past president of the Southern Society of Orthodontists and the American Association of Orthodontists. He is survived by a daughter, three sons, four grandchildren, and four great-grandchildren.

Mary W. Chapman Berini '37 of Durham, on Feb. 1, 2012. She taught elementary school in Durham for many years. She is survived by her husband, Louis; three children; four grandchildren; and three great-grandchildren.

Ruby F. Painton '37 of Hermitage, Tenn., on Dec. 20, 2011.

Albert Phillips Reichert '37 of Macon, Ga., on Feb. 16, 2012. He served as an officer in the Atlantic and Pacific theaters during World War II. After graduating from Mercer University's Walter F. George School of Law, he started the firm of Anderson, Walker & Reichert. He served as member and chair of the state board of bar examiners and handled many pro bono cases. He is survived by three sons, five grandchildren, and three great-grandchildren.

Get It To Go



See videos and online-only content

Read and share class notes

Comment on articles

Share your favorites with friends

Read *Duke Magazine* online at the all-new
dukemagazine.duke.edu

Elizabeth Walton Bowen Reichert '37 of Macon, Ga., on Feb. 22, 2012, six days after her husband of 75 years, **Albert Phillips Reichert** '37. She was involved in civic and cultural affairs, serving as president of the Junior League of Macon, the History Club of Macon, and the Morning Music Club. She also established the W. Derrell Hazlehurst Scholarship Fund at Mercer medical school. She is survived by three sons, five grandchildren, and three great-grandchildren.

Mary A. Lawrence Elkuss '38 of Evanston, Ill., on Dec. 10, 2011. She worked at Highlander Folk School in Tennessee before meeting her husband and moving to Chicago. She then worked as a union educator and director for Amalgamated Clothing Workers of America for 40 years. She is survived by three daughters and a grandson.

Dana S. Johnston '38 of Sayre, Pa., on Dec. 13, 2011. He owned and operated the *Evening Times* newspaper in Sayre until his retirement. He is survived by a daughter, a sister, six grandchildren, six great-grandchildren, and a great-great-granddaughter.

Catherine Thompson Sugg '38 of Chatham, Va., on Feb. 10, 2012. She was a circulation librarian at Union Theological Seminary in Virginia. She is survived by a daughter; three sons; 11 grandchildren; and two cousins, including **Elizabeth T. Severance** M.Div. '77.

Barbara E. Kilduff Mango '39 of Savannah, Ga., on Dec. 27, 2011. In the 1940s, she worked as a public-health specialist for the Connecticut Department of Public Health. Following her marriage, she and her husband were stationed at Air Force bases throughout the U.S. and East Asia. She is survived by her husband, Patrick; two daughters, including **Louise F. Mango-Ferris** '74; a son; and a granddaughter.

John D. Bolton '40 of Greenwich, Conn., on Nov. 25, 2011. After graduating from medical school, he served in the Navy. He then started a private practice in Greenwich, which he managed for 30 years. He is survived by a son, a daughter, a grandson, and two great-grandchildren.

Paul W. Gilbert Ph.D. '40 of DeWitt, N.Y., on March 13, 2012. He taught at Texas Tech, West Point, and Syracuse University, where he served as associate chair of mathematics until his retirement in 1981. He also served in the Army Reserve for 20 years and retired as a lieutenant colonel. He is survived by his wife, Katherine; a daughter; a son; four stepdaughters; a sister; three grandchildren; and three great-grandchildren.

Philip N. Knorr M.E. '40 of Tucson, Ariz., on Feb. 14, 2012. He served in the Air Force in World War II and the Korean War. He taught at Oregon State University and the University of Minnesota before and after the latter war. He later joined the faculty of the University of Arizona, teaching there until his retirement in 1983. He won the 2003 Distinguished Service Award from the School of Renewable Natural Resources and the 2007 Lifetime Achievement Award from the College of Agriculture and Life Sciences. He is survived by his wife, Amy Jean; a sister; and a brother.

Philip Lewis '40 of Atlanta, on Dec. 24, 2011. After a career in management at Sears Roebuck,

he owned and operated his own fabric stores. He is survived by his wife, Frances; four children; nine grandchildren; and two great-grandchildren.

Mary Elizabeth Crawford Bunce '41 of Bernardsville, N.J., on Dec. 18, 2011. She majored in economics and was a substitute teacher in the Bernardsville and Basking Ridge school systems in New Jersey. She volunteered as a lifeguard at the YMCA and with the Visiting Nurse Association. She was active on the Annual Fund committee in the late '80s and '90s, and established an endowment along with her late husband, **Edgar F. Bunce** '41, in memory of their classmates who gave their lives in service in World War II. She chose the Sarah P. Duke Memorial Gardens as her final resting place. She is survived by four daughters, including **Barbara Ann Bunce** '74; three grandchildren; and a great-grandchild.

Frank W. Dailey '41, J.D. '48 of Indianapolis, on March 21, 2012. He served in the Navy in World War II and later became a lawyer. He was a magician and performed professionally all over the world. He was president of the National Society of American Magicians (SAM) in the 1980s and its historian for many years. He is survived by two daughters, three stepdaughters, a sister, three grandchildren, and three great-grandchildren.

John M. French '41 of West Chester, Pa., on Jan. 5, 2012. He was an active volunteer with the Lions Club for more than 60 years. He also chaired the planning and zoning boards of Chester County. He is survived by his wife, Helena; five children; eight grandchildren; and two nieces, **Ellen French Fuller** '51 and **Emma French Randel** '47.

Helen W. Lawrence Mottla '41 of Amherst, Mass., on Jan. 2, 2012. After Duke, she enlisted in the newly formed WAVES (Women Accepted for Volunteer Emergency Service), a volunteer branch of the Navy. She then worked for naval intelligence in the Pentagon and was among the first female U.S. military personnel stationed in postwar Europe. Later in life, she taught at Amherst College. She is survived by two sons and five grandchildren.

Miriam L. Cole Platt '41 of Auburn, Wash., on Nov. 2, 2011.

Martha Kline Bolton '42 of Greenwich, Conn., on Jan. 28, 2012. She was active in the PTA and Junior League of Greenwich and was past president of the Mothers League at Trinity Pawling School. She is survived by a son, a daughter, a brother, a grandson, and two great-grandchildren.

Charles O. Maddox Jr. '42 of Winder, Ga., on Feb. 29, 2012. After serving as an officer for the Army Air Corps during World War II, he returned to Winder and joined The People's Bank, for which he eventually served as president until 1997 and chairman until he retired in 2005. He is survived by his wife, Betty Jo; a son; and three grandchildren.

Frederick Nelson LL.B. '42 of Edmonds, Wash., on Feb. 26, 2012. He served in Japan during the rebuilding following World War II and learned to speak Japanese while stationed there. After the Army, he joined the family business of Nelson Chevrolet. He then owned and operated a

series of car dealerships, continuing to work until he was 94. He is survived by two daughters, a son, a stepson, a sister, and four grandchildren.

Robert S. Puder '42 of Palm Beach, Fla., on Dec. 31, 2011. He served in the Pacific during World War II as an officer on the USS *President Hayes*. He then became managing partner of the accounting firm Puder & Puder, until its merger in 1967 with Deloitte Touche, where he became an executive partner. An active philanthropist, he was heavily involved in the community. He is survived by his wife, Margery; two daughters; six grandchildren; and two great-grandchildren.

Charles H. Schlingheyde '42 of Franklin Square, N.Y., on Oct. 30, 2010.

Theodore R. Tuke '42 of Pittsford, N.Y., on March 22, 2012. After Duke, he became a Navy lieutenant. He survived the sinking of his ship, the USS *Helena*, during the Battle of Kula Gulf. Postwar, he joined the family insurance business, which is now managed by his elder son. He was past president of the Rochester chapter of Chartered Property Casualty Underwriters Society. He is survived by his wife, Doris; two sons; two

daughters; nine grandchildren; and a great-granddaughter.

Irving J. Edelman '43, A.M. '47 of Temple Terrace, Fla., on March 19, 2012. He served in the Army during World War II and saw action in New Guinea and the Philippines. He spent 43 years in the Charlotte-Mecklenburg school system as a teacher and coach. He directed North Carolina's first advanced-placement program, co-chaired the Jefferson Convocation Series, and established Charlotte-Mecklenburg's first humanities program. He is survived by his wife, Ruth; a son; three daughters, **Susan M. Edelman** '78, **Suellen "Becky" Edelman Ford** '79, and **Stacey Edelman Flur** '83; and a grandson, **Adam M. Flur** '13.

Charles A. Mapp B.S.M.E. '43 of Roswell, Ga., on Dec. 19, 2011. He served in the Navy during World War II. He is survived by a son, a daughter, a brother, four grandchildren, and two great-grandchildren.

Edwin O. Morrison B.S.C.E. '43 of Hamilton, N.J., on Feb. 28, 2012. He served in the Army during World War II as a tech sergeant and performed topographic mapping. After the war, he

Read Class Notes online!

Go to dukemagazine.duke.edu to connect with your classmates and share your good news.



Durham's Favorite Destination

**Washington Duke
Inn & Golf Club**

3001 CAMERON BOULEVARD, DURHAM, NC 27705
800.443.3853 919.490.0999 WASHINGTONDUKEINN.COM

Follow us on Facebook and Twitter

worked for Worthington Corp., including as manager of engineering. He also served as police commissioner of New Providence, N.J. He is survived by a daughter, a son, and four grandchildren.

Arthur F. O'Keefe M.D. '43 of Palm Beach, Fla., on April 3, 2009. He served in the Army Medical Corps during World War II and received a commendation from the Queen of England for his aid to the British people. Later, as a general surgeon at Massachusetts General Hospital, he helped develop plastic and practical surgical techniques. He is survived by his wife, Ruth; three sons; and a daughter.

Samuel M. Scott '43 of Washington, Pa., on March 10, 2012. He served in the Army Air Corps during World War II. After the war, he owned and operated Revere Natural Gas Co. until his retirement in 1983. He was a Masonic Lodge master. He is survived by three daughters; seven grandchildren; and a sister, **Ruth Scott Brown** '39.

Jacob T. Bradsher M.D. '44 of Knoxville, Tenn., on Feb. 22, 2012. He served in the Navy Medical Corps during World War II and the Korean War. He practiced thoracic surgery in Knoxville from 1953 to 1992. He was also a past president of the Knoxville Academy of Medicine. He is survived by two sons, a daughter, three sisters, a brother, and four grandchildren.

William P. Combs '44, B.Div. '48 of Roanoke, Va., on Dec. 20, 2011. He was a United Methodist minister in the Western N.C. Conference and the Virginia Conference. He was a charter member of

the American Association of Pastoral Counselors. He is survived by his wife, Jeanette; two sons; a daughter; and four grandchildren.

William Day DeWitt B.S.M.E. '44 of Estes Park, Colo., on Feb. 8, 2012. After Duke, he served in the South Pacific as a Navy lieutenant, junior grade. He helped design landing ship tanks, the amphibious transport vehicles used during the war. He received his M.B.A. from Harvard Business School, after which he worked in construction at Centex Homes. He was involved in designing the Epcot Center and Cinderella's Castle at Disney World. He is survived by his wife, Ann; a daughter; a son; a brother; four grandchildren; a nephew; and a niece.

Hilda Hertz Golden A.M. '44, Ph.D. '50 of Amherst, Mass., on Feb. 22, 2012. She taught sociology at the University of Massachusetts from 1962 until her retirement in 1986. She is survived by a son, a daughter, a grandson, and two step-grandchildren.

Rufus R. Hambright '44, M.D. '50 of Beaufort, N.C., on Feb. 22, 2012. He served in the Navy during World War II and as a medical officer in the Army during the Korean War. After his military service, he began his ob-gyn practice in Greensboro, where he remained until his retirement to Beaufort in 1990. He was a past president of Duke Medicine's Davison Club and received Duke University Medical Center's Distinguished Service Award in 1982. He is survived by his wife, Jean; two sons, **Rufus R. Hambright Jr.** '74 and **Wesley F. Hambright** M.D. '83, HS '87; a daughter-in-law,

Sherry McMillan Hambright A.H.C. '86; a sister; and five grandchildren.

Kathryn "Kay" Gilliam Morgenthau '44 of Exeter, N.H., on Jan. 27, 2012. She was director of the League School of Greater Boston for autistic children. She was also a professor of special education and educational psychology at Lesley University in Cambridge, Mass. She is survived by her husband, **John L. Morgenthau** '43; a daughter; two sons; a sister; 13 grandchildren; and 14 great-grandchildren.

Marybelle Adams Sales '44 of Bethlehem, Pa., on Oct. 24, 2011. She was an active member of Palmer Moravian Church, Church Women United, and the local Sigma Kappa chapter. She is survived by a son, **Thomas D. Sales Jr.** '71; two daughters; seven grandsons; and a great-grandson.

Carolyn Young Dillon '45 of Kansas City, Mo., on Jan. 1, 2012. At Duke, she was a member of Kappa Alpha Theta, the choir and glee club, student government, and the honor society White Duchy. She also worked for Duke's admissions office for two years after graduating. She is survived by three sons and seven grandchildren.

Margaret Allard Koenreich '45 of International Falls, Minn., on March 20, 2012. She and her late husband worked for Tapline and Aramco in Lebanon and Saudi Arabia for 40 years. She is survived by a son, a daughter, and three granddaughters.

Elliot Volkin A.M. '45, Ph.D. '47 of Knoxville, Tenn., on Dec. 30, 2011. Working as a biochemist in Oak Ridge National Laboratory in 1956, he, with his research partner, first observed and described what later came to be known as messenger RNA, or mRNA. From 1969 to 1980, he was scientific director of biochemistry at Oak Ridge. He was elected a fellow of the American Association for the Advancement of Science in recognition of his work. Survivors include a daughter.

Elizabeth Fleck Baker '46 of Spring, Texas, on Jan. 1, 2012. She is survived by three sons, two daughters, eight grandchildren, and 12 great-grandchildren.

Marjorie Bennethum G. Bothun '46 of Atherton, Calif., on Feb. 7, 2012. After Duke, she was an economist with Time-Life in Chicago. Later, she relocated to Palo Alto, where she worked at the Stanford Research Institute and at Allied Brokers. She was a member of the Daughters of the American Revolution. She is survived by a son and a sister.

Phyllis M. Groh Pitzer '46 of Hagerstown, Md., on Feb. 17, 2012. She was a lifetime member of the Washington County Historical Society and an honorary member of the Maryland Symphony Orchestra Guild. She was active in real-estate management throughout her career. She is survived by a son and a sister.

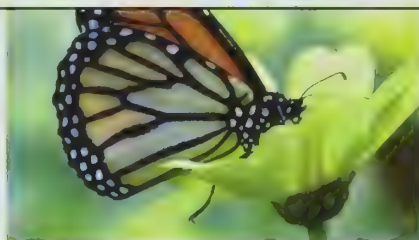
David D. Grayson '47 of Dallas, on Jan. 29, 2012. He worked with his brother at W.M. Smith Electric Co. for 40 years. He is survived by his wife, Inge; three children; four grandchildren; and five great-grandchildren.

Harry T. Hance Jr. '47 of Eugene, Ore., on Feb. 20, 2012. He served in the Army Air Corps



GALLOWAY RIDGE AT FEARRINGTON

Distinctive Retirement Living



Rediscover... *peace of mind for tomorrow.*
Rediscover Galloway Ridge at Fearrington.

Galloway Ridge Life Care guarantees you unlimited assisted living and skilled nursing at virtually no additional monthly cost. You are in control, and your family is freed from difficult decisions in the future.

And right now, you can enjoy this distinctive retirement lifestyle that's getting even better, with expanded amenities and new apartment floor

plans. Not to mention an on-site Duke Center for Living Health and Fitness Center, a fabulous location and adjusted pricing for an extraordinary value. We'll help you plan your move.

Rediscover what Galloway Ridge Life Care is all about.

(919) 545-2647 or (888) 763-9600

3000 GALLOWAY RIDGE • PITTSBORO, NC 27312 • WWW.GALLOWAYRIDGE.COM

OPEN MONDAY THROUGH FRIDAY, SATURDAY 10 A.M.-2 P.M. AND SUNDAY BY APPOINTMENT



during World War II, retiring from service with the rank of major. In addition to working as treasurer and sales manager of The Hance Corp., he remained active in the Central Ohio Air Force Reserve. He was past president of the Westerville school board. Survivors include a son and three grandchildren.

Helen Jones Majette R.N. '47 of Southern Pines, N.C., on Feb. 16, 2012. She was assistant director of nursing at North Carolina Memorial Hospital in Chapel Hill. She then became an assistant professor at the nursing schools of UNC's Chapel Hill and Wilmington campuses. Survivors include a sister-in-law.

Keith D. McGowan Jr. B.S.M.E. '47 of New Castle, Del., on Feb. 21, 2012. He spent the majority of his life working at Hercules Inc., a chemical and munitions manufacturing company. He is survived by two daughters, three granddaughters, and a great-grandson.

William W. Pryor M.D. '47 of Pawleys Island, S.C., on March 24, 2012. After working at Duke as a cardiology associate and an instructor in the department of medicine, he began his practice in Greenville, S.C. In 1971, he became director of internal medicine for the Greenville Hospital System. He also served as governor of the South Carolina chapter of the American College of Physicians and received its highest honor, the Laureate Award. He is survived by four children, including **William W. Pryor Jr.** M.D. '81; eight grandchildren; and a great-grandchild.

Vera F. Rogers Royal M.R.E. '47 of Whiteville, N.C., on Jan. 28, 2012. She was an accomplished pianist and organist and often performed in her church. She is survived by her husband, **James Peyton Royal** M.Div. '49; a daughter; three sons; eight grandchildren; and two great-grandchildren.

Joseph R. Hoyle Wilson B.S.E.E. '47 of Tampa, Fla., on Dec. 28, 2011. After Duke, he was a naval officer during World War II in the Pacific theater. He was also a radiation officer at the Bikini Atoll atom bomb test. He then worked as a radio broadcast manager for several stations and became senior vice president of Muzak Corp. He is survived by his wife, Mary; three sons, including **Blake S. Wilson** B.S.E.E. '74; daughters-in-law, including **Doris J. Rouse** '70, Ph.D. '80; four stepchildren; a sister; five grandchildren; and 10 step-grandchildren.

Sheldon Abelkop '48 of Myrtle Beach, S.C., on March 15, 2012. He served as president of the North Carolina B'nai B'rith and treasurer of North Carolina Hillel in the 1970s. He was the owner of S. Swartz in Durham and comptroller for Allied Chemical. He is survived by his wife, Evelyn; four daughters; and four grandchildren.

Mary Jean Armistead '48 of Roanoke, Va., on Nov. 27, 2010. She worked in Washington for 32 years, serving primarily as chief legislative assistant for six congressmen and a senator. She also held a real-estate agent's license. Survivors include a niece, **Amanda Jean Smith** '96.

Thomas C. Langford Jr. '48 of Orangeburg, S.C., on Dec. 26, 2011. He served in the Army during World War II, participating in both the D-Day invasion and the Battle of the Bulge. From

1961 to 1988, he was director of public relations for the South Carolina Department of Health and Environmental Control. He was past president of the Columbia Town Theater and wrote the charter for the Orangeburg Historic and Fine Arts Endowment. He is survived by his wife, Mary; a daughter; and two grandchildren.

Margaret E. Rhudy Lilly '48 of Spring Hill, Tenn., on March 7, 2012. She is survived by a son, two daughters, seven grandchildren, and a great-grandchild.

Berry Bryant Monroe M.D. '48 of Florence, S.C., on March 15, 2012. He was a Marine Corps medic and was awarded a Bronze Star for his service in the Korean War. After completing his residency in Cincinnati, he moved to Florence and opened his practice, retiring in 1997. He is survived by a daughter, two sons, a brother, and three grandchildren.

Thomas K. Pettit B.S.M.E. '48 of Baltimore, on Feb. 28, 2012. He worked as a senior engineer at Baltimore Gas and Electric Co. for 24 years, retiring in 1986. For four years, he ran a natural-foods store with his wife and daughter before selling it in 1982. He developed a lifelong love of horse-racing after attending the famous War Admiral vs. Seabiscuit match in 1938. He is survived by a son, three daughters, a brother, five grandchildren, and three great-grandchildren.

retiring in 1986. For four years, he ran a natural-foods store with his wife and daughter before selling it in 1982. He developed a lifelong love of horse-racing after attending the famous War Admiral vs. Seabiscuit match in 1938. He is survived by a son, three daughters, a brother, five grandchildren, and three great-grandchildren.

Anne Adams Terreni A.M. '48 of Columbia, S.C., on Feb. 14, 2012. She taught at the Medical University of South Carolina and worked in the mycology laboratory at the South Carolina Department of Health and Environmental Control. She is survived by her husband, Renato; a son; and two grandchildren.

Benjamin T. "Ted" Cole '49, A.M. '51, Ph.D. '54 of Columbia, S.C., on Dec. 28, 2011. He began his teaching career at the University of South Carolina in 1960. He served as the head of the biology department from 1964 to 1973 and retired as a distinguished professor in 1984. A devout Southern Baptist, he spent his retirement years taking missionary trips to Kenya, East Africa, Ukraine, and Romania. He is survived



**COME VISIT THE NEW
DURHAM CONVENTION
CENTER**

**Downtown Durham's Premier Meeting
and Event Destination**

New Contemporary Décor
Flexible Meeting & Event Space
In-House Catering
Exciting New Event Menus
Brand New Kitchen Facility
Digital Signage Displays
Built-in House Sound System

919.956.9404 • 301 W. Morgan St., Durham
DurhamConventionCenter.com

by his wife, Leona; two children; a sister; and a step-granddaughter.

Ervin Jackson Jr. '49 of Charlotte, on Dec. 23, 2011. He served in the Air Force from 1944 to 1947. He then spent his entire business career with J.B. Ivey & Co. (now Dillard's), a specialty department store group. He is survived by his wife, Elizabeth; two daughters; two brothers; four grandchildren; and several cousins, including **George M. Ivey Jr.** '45, **Mary C. Ivey** '50, and **Deryle Ivey Hunter** '58.

Bruce Newell '49, M.D. '56 of Lake Wales, Fla., on Feb. 19, 2012. He served in the Navy during World War II. He was a general practitioner in Lake Wales, and he served as medical director of Lake Wales Extended Care Facility and of Dove Healthcare. He is survived by his wife, **Marilyn Skinner Newell** '49, and a sister-in-law, **Nancy K. Skinner Severson** '54.

Janet Mildred Nixon '49 of New York, on Feb. 26, 2012. After serving as an American ambassador throughout the world, she served as the chief of protocol at the U.S. Mission to the United Nations. After her retirement, she founded a New York-based etiquette and protocol consulting firm. Survivors include two brothers-in-law and two nieces.

Randle C. Sloan B.S.E.E. '49 of Charlotte, on Dec. 23, 2011. He was a radio operator in World War II on a B-29 bomber, stationed in Saipan in the Mariana Islands. For his service, he received the Distinguished Flying Cross, among other awards. In the 1960s, he established a manufac-

turer's rep business that became Sloan Carolinas Inc. Survivors include a daughter.

James G. Cate Jr. J.D. '50 of Cleveland, Tenn., on March 21, 2012. He served in World War II and was vice president, general counsel, and secretary of Bowater United States Corp., Bowater Southern Paper Corp., and Bowater Carolina Corp. He served as a trustee and a member of the board of regents of the University of the South and president of its alumni association. He is survived by his wife, Margaret, and a daughter.

Wilfred Arthur Cote Jr. M.E. '50 of Syracuse, N.Y., on March 8, 2012. He served in World War II in the Army Signal Corps as cryptographic and signal-center chief in the European theater and studied at Sorbonne University in Paris in 1945. He established the first electron microscopy laboratory in central New York and served as director of the Center for Ultrastructure Studies. He is survived by his wife, Irene; two daughters; three sons, including **Peter C. Cote** M.D. '80; 13 grandchildren; and 16 great-grandchildren.

Gerard L. Goettel '50 of Southbury, Conn., on Dec. 19, 2011. He was a U.S. district judge who was first assigned to the Southern District of New York. He later served in Waterbury, Conn., as a senior judge for 11 years. He is survived by his wife, **Elinor Praeger Goettel** '51.

Arthur K. Knudsen Jr. LL.B. '50 of Fort Myers, Fla., on Feb. 2, 2012. He served with the Army at the end of World War II, and his division met the Soviet soldiers at the Elbe River on April 25, 1945. After Duke, he started his own

law firm in Fort Myers in 1951 and practiced there for the next 50 years. He is survived by his wife, Christie; a daughter; two grandchildren, including **Andrea Lee Schuch** '99; and a great-grandchild.

Robert Blackwell Lloyd Jr. J.D. '50 of Greensboro, on Feb. 13, 2012. He worked as a certified specialist in estate planning and probate law and assisted in the founding of the estate-planning and fiduciary law section of the N.C. Bar Association, of which he was chairman. He is survived by his wife, Mary Ruth; a daughter; a son; and a granddaughter.

Alice R. Neely McGeachy '50 of Brentwood, Tenn., on Dec. 6, 2011. She was a childhood-development consultant. She is survived by her husband, Pat; a daughter; two sons; two sisters; and four grandchildren.

Lucinda Edwards Minton '50 of Raleigh, on March 20, 2012. She is survived by a son; a sister-in-law, **Rosemarie Wilson Edward** '49; and three grandchildren.

Nyle Jane Brug Terry '50 of Houston, on Nov. 22, 2011. She worked with her husband in the family business, Thomas Publishing Co. She was involved with the Republican Women's Club. She is survived by a son and five grandchildren.

George A. Zirkle HS '50 of Knoxville, Tenn., on March 20, 2012. He was a captain in the Army Medical Corps during World War II. He helped establish the intensive-care nursery at the University of Tennessee hospital. At the 1982 World's Fair, he led a campaign calling for seat-belt legislation for children, and Tennessee was the first state to require mandatory child restraints. He was past president of the Tennessee Medical Association and the Knoxville Academy of Medicine. He is survived by his wife, Louise; a son; a daughter; and four grandchildren.

Joyce M. Auman '51 of Richmond, Va., on Feb. 17, 2012. After graduating, she worked for the Mecklenburg County Department of Social Services. Survivors include two daughters, three sisters, and two granddaughters.

Timothy S. Chang M.Div. '51 of Carlsbad, Calif., on Dec. 30, 2011. He earned five college degrees, including a Ph.D. in poultry pathology and microbiology that initiated his discovery of a gland essential to antibody production in chickens, which in turn led to the discovery of a corresponding link in humans. He was a professor of animal science at Michigan State University and consulted for the Chinese government on converting backyard chicken farming to the modern poultry industry. He is survived by his wife, Annabelle; two daughters; two sons, including **Jonathan L. Chang** M.D. '84; and four grandchildren.

Raymond A. Esthus A.M. '51, Ph.D. '56 of Sarasota, Fla., on Jan. 2, 2012. He served in the Army Medical Corps during World War II, repairing medical X-ray machines. He then became a history professor at Tulane University's Newcomb College, where he taught for 38 years. He served as president of the Society for Historians of American Foreign Relations. He is survived by two daughters, a brother, five grandchildren, and three great-grandchildren.

Why Folks Just Like You, From 31 Different States, Have Chosen To Call Us Home



ENJOY the comfort of gracious maintenance-free cottage and apartment living

DISCOVER our renowned on-site cultural and educational offerings

REJUVENATE in on-site aquatic, fitness and wellness programs

FEEL SECURE with the Forest's award winning, Duke directed Health Center

20 Years of Excellence

The FOREST at DUKE

1992-2012

Renowned Retirement Living

2701 Pickett Road, Durham, NC 27705
919.490.8000 • 800.474.0258 • www.forestduke.org

My Duke, Your Duke, Our Duke



"The Annual Fund is the vehicle that most directly supports the students who are now attending Duke. We are grateful for everything Annual Fund supporters do."

— Kyla Casey T'13

"Your Annual Fund support has encouraged me. I've met a lot of alumni who come back because of their great Duke experience. I want to continue to be a part of the Duke community even after I graduate."

— Jared Rollins E'13

"The Duke Annual Fund helps make a Duke education accessible, engaging, and transforming. Thanks, Annual Fund supporters!"

— Corey Summers D'12

"Thank you, alumni, parents, and friends. Your Annual Fund contributions help support some of Duke's best teachers and most exciting educational opportunities. Your generosity touches our lives every day."

— William Tsai T'13

Thanks

The many students who benefit from your Annual Fund support thank you for your contributions in 2011-12.



Scan the QR Code at left—or visit <http://giving.duke.edu/thankyou>—to watch a video of Duke students discussing the impact of donor support.



DUKE
ANNUAL
FUND

Robert A. Kenaston B.S.C.E. '51 Cocoa, Fla., on July 2, 2011. Survivors include his wife, Janet.

Louis W. Powell M.E. '51 of Medford, Ore., on March 23, 2012. He served in the Army during World War II; his unit assisted in the liberation of Czechoslovakia. He entered the Air Force Reserve after the war and retired as a captain. He taught forestry at the University of Montana, Oregon State, and Humboldt State University. He retired as a safety professional with Oregon OSHA. He is survived by his wife, Karen; three sons; 13 stepchildren; a sister; 35 grandchildren; and 30 great grandchildren.

Alan L. Walrond '51, M.E. '53 of Springfield, Mass., on Dec. 20, 2011. He served in the Navy during World War II as an aviator lieutenant. After Duke, he worked for Pratt & Whitney and United Fuel Cells until his retirement in 1988. He was a contributor and designer of fuel cells for the Apollo space program. He is survived by his wife, Joan; four children; two sisters; three grandchildren; and two great-grandchildren.

James D. Crane '52, M.D. '61 of Jacksonville, Fla., on March 3, 2012. He practiced pediatrics in Jacksonville for 32 years until his retirement in 1997. He is survived by his

wife, Barbara; three daughters; a sister; and seven grandchildren.

Harley B. Gaston Jr. '52, J.D. '56 of Belmont, N.C., on Dec. 31, 2011. He served in the Navy during the Korean War. He later practiced law as a city attorney for 30 years. He became a district judge in 1986 and served four terms. He was a past president of the Belmont Chamber of Commerce and Belmont Rotary club. He is survived by his wife, Katherine; two sons; two sisters, including **Joanne Gaston Schenck** '55; and a brother-in-law, **Michael Schenck** '55.

William Rodger Smythe Jr. A.M. '52, Ph.D. '55 of Norcross, Ga., on Feb. 14, 2012. He had a 37-year career as a professor in the school of mathematics at Georgia Tech. He is survived by his wife, Jacqueline; two daughters; two sons; and nine grandchildren.

William E. Easterling Jr. '53 of Chapel Hill, on Dec. 28, 2011. He was an Angier B. Duke Scholar and received his M.D. from UNC-CH. After a stint as chief of ob-gyn at the Stewart Air Force Base in Tennessee, he worked at UNC from 1964 until his retirement in 1998. He posthumously received a distinguished faculty award from the UNC School of Medicine in April. He is survived by his wife, Ellyn; five sons; and 14 grandchildren.

Louise J. Murphy '53 of Dallas, on Dec. 12, 2011. She is survived by her husband, John; four children; a brother; and six grandchildren.

Lorraine W. Phillips B.S.N.Ed. '53 of Middlebury, Vt., on Dec. 27, 2011. She held faculty positions at the University of Washington and the University of Vermont. Later, she was a consultant to the University of New Hampshire School of Nursing. Most recently, she chaired the department of nursing at the State University of New York.

Benny R. Reece '53 of Bay Minette, Ala., on Dec. 30, 2011. He was a James B. Duke Fellow and a Fulbright Scholar. He taught classics at Mercer University, then at Furman University until his retirement in 1993. He is survived by his wife, Ethel, and a son.

Jane Kerbeck Covey '54 of Spring Lake, N.J., on March 5, 2012. She was a member of the College Club in Ridgewood, serving as its president. She is survived by her husband, Richard; a daughter; a son; and three grandchildren.

Jane P. Prevatt Dawsey B.S.M.T. '54 of Charleston, S.C., on March 20, 2012. She worked as a medical technologist and laboratory supervisor with the Medical University of South Carolina for 35 years. She belonged to First Baptist Church of Charleston and the Pythian Sisters. She is survived by two daughters and three grandchildren.

Bernard "Buzz" Jack '54 of Fort Worth, Texas, on Dec. 25, 2011. He served in the Air Force as a flight medical officer and fighter pilot, retiring as a colonel in 1979. He then worked as a thoracic and vascular surgeon at Harris Methodist Hospital in Azle, Texas. He is survived by his wife, Naomi; two daughters; five grandchildren; and five great-grandchildren.

Donald de Laski '54 of Bethesda, Md., on March 9, 2012. After spending 20 years building an accounting practice for government contrac-

How do you want to retire?
Reinvent

The possibilities are endless when you choose a maintenance-free lifestyle with an abundance of amenities at The Village. You'll have more time to explore your passions and spend time doing the things you **want** to do – instead of the things you **have** to do.

The Village at Brookwood — This is how we do retirement.

1860 Brookwood Ave.
Burlington, NC

Sponsored by
Alamance Regional
Medical Center

800-282-2053
www.VillageAtBrookwood.org

tors, he founded Deltek Systems in 1983 with his son, Kenneth. The company provides enterprise management software for professional service firms and government agencies and contractors. He remained its CEO until 1996. Through the de Laski Family Foundation, he and his late wife, **Nancy Panossian de Laski** '56, were benefactors of George Mason University, where a performing-arts center is named in their honor. He is survived by three children, including **Kenneth E. de Laski** '79 and **Kathleen Mary de Laski** '81; and seven grandchildren, including **Dana Nancy de Laski** '14.

E. Reid McAuley Jr. M.D. '55 of Jacksonville, Fla., on Dec. 23, 2011. He served in the Air Force as a captain and flight surgeon from 1956 to 1958. He then practiced medicine for 27 years, including four years as chief of orthopaedics at Jacksonville Memorial Hospital. He is survived by his wife, Erollyn; two sons; a sister; and four grandchildren.

Laurie L. Dozier Jr. M.D. '56 of Tallahassee, Fla., on March 6, 2012. He practiced medicine with his father and brother and was chairman of the board of GTO, a manufacturing company, which he helped expand. He is survived by two sons; two daughters; two stepsons; 19 grandchildren; and four great-grandchildren.

Virginia Sanford Mangum M.D. '56 of Goldsboro, N.C., on Feb. 23, 2012. After Duke, she volunteered for the American Red Cross in Germany. She later opened a pediatric practice with her husband and then her own practice in 1971, serving the Goldsboro community until her retirement in 2010. She is survived by a son; a daughter, and two grandchildren.

Betty Jo Myers O'Dea '56 of Chattanooga, Tenn., on March 27, 2012. She taught elementary school in Florida and Connecticut. She is survived by two sons; a stepbrother; and three grandchildren.

Peter King Rimbach '56 of Scottsdale, Ariz., on Dec. 20, 2011. He was an avid traveler and a storyteller. He became a licensed pilot by age 16, was a self-proclaimed "train buff," and recorded all his travels through his writing. He is survived by his first wife, Ruth McCahan, a son, two daughters, and six grandchildren.

Mary Valliere Taylor Dysart '58 of San Jose, Calif., on Dec. 13, 2011. She was active in the Sierra Club and Nature Conservancy and was an advocate for native peoples of the Bay Area. She is survived by her husband, Sam; two daughters, including **Gia Nina Scarpetta** '83; a son; a son-in-law, **Les W. Field** Ph.D. '87; two stepdaughters; a brother, **Creed Taylor** '54; 10 grandchildren; a nephew, **Ian A. Shaw Jr.** '78; and a niece, **Courtney D. Taylor** '11.

Ernest Penn Gilbert Jr. B.S.C.E. '58 of Randolph, Fla., on Jan. 2, 2012. He served in the Army during the Korean War. He then worked as a civilian engineer at Ramstein Air Force Base in Germany and at Cape Canaveral, retiring after 30 years. He is survived by two daughters, two sons, two brothers, 14 grandchildren, and five great-grandchildren.

Mary L. Van Every Sisk '58 of Cumming, Ga., on Feb. 9, 2012. She traveled throughout the world as a prayer leader and evangelist. Along with

her husband, she founded the Metrolina Prayer Network. She is survived by a son; three daughters; two sisters; nine grandchildren; two step-grandchildren; and two great-grandchildren.

Judith Virginia McFaddin Enck '59 of Dalton, Ga., on Jan. 6, 2012. She spent much of her childhood in Europe and was an active member for 24 years of Alcoholics Anonymous, where she assisted many in their recovery. She is survived by two sons, four grandchildren, and several cousins, including **Betsy Alden Rutledge** '64 and **John T. Alden** '67.

Benno Janssen Jr. HS '59 of West Palm Beach, Fla., on March 14, 2012. He served as an officer in the Navy during World War II and was aboard the USS *Missouri* during Japan's formal surrender. After the war, he became a gastroenterologist and internal-medicine specialist, serving at Good Samaritan and St. Mary's hospitals in West Palm Beach and several area clinics. He is survived by his wife, Jeanne; a daughter; two sons; a brother; and nine grandchildren.

Peter Livermore Temple '59 of Tarboro, N.C., on March, 8, 2012. After graduating, he re-

ceived his M.D. at Emory University in 1963. In 1968, he began practicing family medicine at the Tarboro Clinic, where he worked for 30 years until his retirement. He is survived by his wife, Betty; three daughters; two sons; two brothers; two sisters; a stepbrother; and 10 grandchildren.

Deems L. "Butch" Allie '60 of Tucson, Ariz., on March 1, 2012. At Duke, he was co-captain of the football team and was named to the All-America Academic football team. He then worked as a salesman for American Hospital Supply for 35 years. He is survived by his wife, Merrily; three daughters; a brother; and a sister.

Elizabeth "Boots" Antrim Thrower '60 of Vero Beach, Fla., on Dec. 15, 2011. She was a teacher in Greensboro and served on the advisory board of the Duke Marine Laboratory. Active in marine and Florida Everglades preservation, she served on the board of the Indian River Land Trust and the Florida Nature Conservancy. She is survived by her sister.

Charles Edward Lake B.S.C.E. '61 of Graham, N.C., on Feb. 17, 2012. He worked for Bethlehem Steel Co., Alcan Aluminum, and

Read Class Notes online!

Go to **dukemagazine.duke.edu** to connect with your classmates and share your good news.



MEMORIAL GARDEN • SARAH P. DUKE GARDENS

IMAGINE ... a garden of serenity, with exquisite plantings and shaded benches where family and friends can gather and reflect, in the heart of Duke Gardens.

Stones line the winding paths, engraved with the names and stories of those whose ashes are buried here.

A charitable contribution to the Gardens endowment is required, which may be part of estate plans.

For information, please contact:
 Memorial Garden
 Duke University, Box 90341
 Durham, NC 27708
 919-668-3604
 bill.lefevre@duke.edu
 gardens.duke.edu

Luxfer. Most recently, he taught at Alamance Community College for five years. He is survived by his wife, Mary Ann; two sons; a daughter; two sisters; and a granddaughter.

Michael J. McBea '61 of Silver Spring, Md., on Dec. 14, 2011. He is survived by a son, a daughter, and two grandchildren.

James J. Kenny LL.B. '62 of Park City, Utah, on Dec. 26, 2011. After 10 years as a partner in Kelly, Black, Black & Kenny, he established Kenny Nachwalter & Seymour. He was listed in *Best Lawyers of America* for business, antitrust, and commercial litigation annually from 1987 to 2007. He is survived by his wife, Pat; a son; a daughter; four sisters; and six grandchildren.

Edwin Currier Pound Jr. HS '62 of Atlanta, on Feb. 24, 2012. He was a captain at the Army hospital in Fort Lee, Va. He started his own plastic-surgery practice in 1961 and was a pioneer in outpatient procedures in Georgia. He was also a leader in the development of the trans-umbilical breast augmentation procedure. He is survived by his wife, Kathleen; his son, **Edwin Currier Pound III** '77; a sister; and five grandchildren.

Thomas E. Senf '62 of Hilton Head, S.C., on April 6, 2012. He served in the Army Reserve for five years, obtaining the rank of first lieutenant. He spent most of his career in the financial printing industry in San Francisco, where he provided services to companies throughout Silicon Valley. In 1962, he was president of the National Society of the Children

of the American Revolution. He is survived by his wife, **Anne R. Irwin Senf** '63; two sons, including **Robert L. Senf** '92; three stepchildren, including **Andrew W. Vincent** '09 and **John H. Vincent** '89, M.B.A. '97; a brother-in-law, **David G. Klaber** J.D. '69; and seven grandchildren.

Dean R. Taylor M.D. '62 of Glyndon, Md., on Nov. 19, 2011. He was drafted into the Navy in the 1960s and completed his medical training in 1970. He began working at Johns Hopkins Hospital before going into private practice in 1974. He retired in 1991, but remained an assistant professor of medicine at Johns Hopkins until his death. He was a past president of the Maryland Society of Cardiology and the Maryland Society of Internal Medicine. He is survived by his wife, **Carolyn Moore Taylor** '60; a daughter, **Susan Taylor Harris** '83; two sons, including **Dean R. Taylor Jr.** '86; three granddaughters; and six grandsons.

O. Richard Forsythe M.A.T. '63 of Chambersburg, Pa., on March 6, 2012. He taught at Shippensburg University for 31 years, retiring in 1995 as associate professor of English and director of English Education and Communication Arts, both teacher-education programs. He wrote three textbooks and dozens of articles during his tenure. Following his retirement, he was an adjunct professor at Wilson College for six years. He is survived by a sister and two brothers.

Robert L. Fuson HS '63, HS '65, HS '69 of South Pasadena, Fla., on March 16, 2012. He

taught anatomy at Rutgers University and was director of research and development at Johnson & Johnson. He later served as vice president of Zimmer Inc., in Warsaw, Indiana. He is survived by his wife, Shirley; a daughter; a son; a sister; three grandchildren; and a great-granddaughter.

Elizabeth L. Barlow Werner M.A.T. '63 of Raleigh, on March 2, 2012. An English major at Duke, she taught the subject at high schools in Durham and San Antonio after graduating. She also was a special-education teacher at Murdoch Center in Butner, retiring in 2005. She is survived by her husband, Anthony; a son; a daughter; three brothers; and two grandchildren.

Frank J. Huffman Jr. '66 of Memphis, Tenn., on Dec. 19, 2011. After Duke, he taught history at the University of Houston for six years. He then joined Crump Cos., ultimately serving as senior vice president and director of corporate communications for Sedgwick Claims Management Services. He was a past president of the Memphis chapter of the Multiple Sclerosis Society. He is survived by his wife, **Katharine Phillips Huffman** '66; three children; a sister; and five grandchildren.

Jane Adkinson Bailey '68 of Atlanta, on Feb. 28, 2012. She had a long career as a medical technologist with the VA Medical Center, SmithKline Beecham Clinical Laboratories, and St. Joseph's Hospital. She is survived by her husband, Mickey; a daughter; a son; a stepdaughter; a sister; and a grandson.

David L. Kneapler '68 of Hillsborough, Calif., on Feb. 15, 2012. He was the first non-chemistry major at Duke to receive the Chemistry Award. After receiving his M.D. from Yale School of Medicine, he practiced internal medicine and rheumatology in the Bay Area for 30 years. He is survived by his wife, Shelley; three children; and a brother.

Barbara C. Buerger Abernathy '69 of Burlington, N.C., on March 8, 2012. After earning her M.A. in library science from UNC, she worked at the Guilford Center as a law librarian and transportation specialist. She is survived by her husband, Wayne; her mother; two daughters; two sisters; and a niece, **Kimberly Carlson Touzeau** '87.

Joseph L. Golden '70 of Los Angeles, on Feb. 12, 2012. Survivors include his wife, Judith; two daughters; two brothers; and a sister.

Eugene A. "Andy" Gordon M.A.T. '71 of Atlanta, on March 6, 2012. After teaching at a middle school in Raleigh while studying at Duke, he moved to Atlanta to begin a business career. He started his own consulting company, A.L. Cannon, in 1971. He is survived by his life partner, James Elkington.

Dennis Keith Coffey B.S.E. '72 of Atlanta, on Feb. 26, 2012. Survivors include his sister and brother.

James A. McClung M.Div. '72 of Henrico, Va., on Jan. 7, 2012. While at Duke, he served as student chaplain at both Duke Medical Center and the Murdoch School and Hospital for Mentally Handicapped Persons. He later served as director of the Virginia United Methodist Agency for the Retarded. In 1985, he started Camp Rain-



WHO MADE YOUR BED?

The ultimate adjustable bed. **MADE IN VIRGINIA**

- It features a remotely controlled motor-powered, multi-position frame.
- Select from various headboard and premium mattresses.
- Sizes: Twin, Full, Queen, Split Queen and King.
- Financing available.

ASSURED COMFORT

Call 866.852.2337 for a brochure
Visit us at AssuredComfortBed.com

bow Connection for mentally handicapped youth and adults, which continues to this day. He is survived by his wife, Elizabeth; a son; a daughter; a brother; a sister; and three grandchildren.

John Cowles Tally J.D. '74 of Fayetteville, N.C., on March 4, 2012. In addition to practicing at the law firm he began with his father, Tally & Tally, he owned and managed a shopping center and managed an apartment complex. Survivors include his wife, **Mary Ann L. Tally** J.D. '74; two sons; his mother, **Lura Self Tally** '42; his brother, **Robert T. Tally** '70, J.D. '76; and a nephew, **Robert T. Tally Jr.** '91, J.D. '01.

James Breckenridge Blackburn III J.D. '80 of Chapel Hill on March 5, 2012. He served in the Army and was stationed at Fort Bragg in 1971. After completing his law degree, he became a researcher for Terry Sullivan in the North Carolina legislature. He then served for more than 25 years as general counsel for the North Carolina Association of County Commissioners. He is survived by his wife, Cynthia; two daughters; a son; and a grandson.

Irene Kennedy '80 of Summit, N.J., on Dec. 7, 2011. She worked for the State Department for many years, spending time in Washington and Brussels. She most recently worked as a sales representative for Weichert Realtors. She is survived by her husband, Chip; a sister; and a brother.

Sylvia K. Singletary Suitt B.S.N. '83 of Fayetteville, N.C., on Feb. 9, 2012. She is survived by her husband, Michael; her father; a sister; and three brothers.

Elizabeth Ann "Lisa" Zimmerman Lavine '84 of Greenwich, Conn., on Dec. 22, 2011. She worked as a pediatrician at Clinicas de Salud del Pueblo in Calexico, Calif., for the U.S. Public Health Service. Most recently, she was working as a part-time pediatrician for Firefly urgent care clinic in Stamford, Conn. She is survived by her husband, Bruce; two sons, a daughter; two brothers; and a sister.

Cynthia L. Burt Lafuente '85 of Wilmette, Ill., on March 5, 2012. She practiced international tax law in private and public sectors after graduating from Chicago Kent College of Law in 1988. She is survived by her partner, Jerry Smith; her parents; and two brothers.

Edward J. Mills M.B.A. '85 of Lansing, Mich., on Jan. 12, 2012.

Lawrence Gordon Smith J.D. '86 of Boise, Idaho, on March 10, 2012. After serving in the Army, he attended Boise State University. He then practiced at a handful of law firms, eventually working for the Ada County public defender's office, where he remained for more than 20 years. He is survived by a son, a daughter, his mother, and a half-brother.

Robin Ann Retus B.H.S. '88 of Derry, N.H., on Dec. 24, 2011. She worked as a medical technologist for Parkland Medical Center in Derry. Survivors include two sisters.

Mark E. Snesrud B.S.E.E. '91 of Rochester, Minn., on Jan. 6, 2012. After Duke, he received his master's degree at N.C. State University. He then moved to California, where he worked as a

computer engineer. He is survived by his parents and three sisters.

Myra Maureen Frazier J.D. '95, M.A. '95 of Gaithersburg, Md., on Nov. 14, 2011. She was a Fulbright Fellow who spent 15 years in Gabon, Africa. She later worked for the Environmental Protection Agency and helped coordinate energy policy planning between the U.S. and various southern African nations. Most recently, she worked as a contract lawyer for several energy and technology companies.

Sonya Milord "JoJo" Dumbar M.B.A. '01 of Miami, on Feb. 10, 2012. She wrote *In One Day*, a children's book about African-American inventors. She is survived by her husband, Sahr; two brothers; and two sisters.

Amelia Tauchen Marguet J.D. '10 of San Francisco, on March 11, 2012. At Duke, she participated in Moot Court and received the Intellectual Property Award in 2010. She joined Gibson, Dunn & Crutcher's Palo Alto office as an associate in 2011 after serving as a law clerk to a judge on the U.S. Court of Appeals for the Federal Circuit. She is survived by her husband, **Philippe Robert Marguet** Ph.D. '10, Cert. '10; and her parents.

Jessica Ruth Caroe M.B.A. '13 of Houston, on May 22, 2012. After internships with Sen. Rick Santorum and the U.S. Justice Department, she joined Teach For America and taught in Houston, ultimately becoming development director for YES Prep public schools, a Houston charter system. She is survived by her parents, three sisters, and four brothers.

Classifieds

Looking for ways to **reach an exclusive clientele?** Advertise with *Duke Magazine* and access more than 120,000 potential clients in the Duke family. For rates, requirements, deadlines, and all other questions, check out www.dukemagazine.duke.edu, or e-mail us at dukemag@duke.edu.

ACCOMMODATIONS

Paris: Marais. Luxury rental in center of Paris. Close proximity Picasso Museum, Centre Pompidou and other historical sites as well as gourmet shops of Rue de Bretagne. See owner's website at www.parischapon.com.

Paris, SW France, Provence: Comfortable apartments, homes, chateaux. FHR@earthlink.net; (503) 219-9190; www.FrenchHomeRentals.com

Ski in/Ski out. Luxury Deer Valley 3 Bedroom Condo. Arrowleaf Lodge #303 Sleeps 6-8. Fantastic mountain views from every room. Mention the Duke Discount! www.VRBO.com/394683

Tuscany: Castle. Spend a week in a fabulously restored 11th century castle. Sleeps 8. www.castellodiporciano.com. Contact Betsy Conti at 919-961-5565, betsy@thecontigroupllc.com

FOR SALE

BOONE, NC COMMERCIAL SITE: Family owned business since 1982. Rare Hwy 321 frontage, .4 acre, older 2000sf house/office, high visibility, half-mile from Appalachian State, many possibilities, \$525K or half-interest \$225K, Broker Interest 828-964-5389

FREDDY ROBERTSON'S 45's RECORD COLLECTION SEE unclefredsrecords.com (duke1971@ptd.net)

MISCELLANEOUS

Alumni and celebrities are surviving and thriving with DIVORCE DETOX. Prevent the pain of the past from infiltrating future relationships. 100% Confidential. Call for a free consultation. (888) 456-7056 divorcedetox.com

Cooper Mays Pottery has reopened - new location at Haw River on 15/501. Same handmade porcelain - Half Price Sale Event in progress. 919-858-6264, coopermays@gmail.com, <http://coopermays.blogspot.com>

Retro

President, Astronomer

How a solar eclipse confirmed Braxton Craven's perfect timing

| By Valerie Gillispie

Although he never attended college himself, Braxton Craven—the longest-serving president in Duke's institutional history—was a man of broad intellectual talents. A voracious reader, he enjoyed an excellent memory and an aptitude for a wide variety of subjects. As he led the fledgling Trinity College from 1842 to 1882, he was called on to teach an array of classes, including psychology, aesthetics, zoology, chemistry, ancient languages, and biblical literature. One of just six professors at the Randolph County school, he was officially listed in Trinity's annual catalogue as a professor of metaphysics, rhetoric, and logic. He also served as the school's physician, provided legal help to townspeople, and was noted for his expertise on everything from horses to economic development.

Perhaps the most extraordinary display of Craven's abilities came in 1869, when the North Carolina minister outsmarted some of the best scientific minds in the country. The occasion was a solar eclipse that was to occur over the eastern U.S. on August 7 of that year. The venerable Smithsonian Institution published a list of times when it predicted the eclipse would



Renaissance man: Craven's wide array of interests included psychology, metaphysics, and astronomy.

be visible over various cities, including Raleigh. But Craven did not agree.

Astronomy was another of Craven's

areas of self-taught expertise. His teaching notes on the subject, which are part of his papers held in the University Archives, include diagrams and mathematical formulas for predicting a solar eclipse. Craven's own calculations for when the eclipse would be seen over Raleigh differed by a few minutes from that of the Smithsonian experts.

The day of the eclipse was the moment of truth. Sure enough, the skies over Raleigh darkened at the time Craven had predicted. It is said that the Smithsonian was so impressed with Craven's prediction that they offered him a position at the institution. Little correspondence survives from the time period, and Craven's diary does not mention the offer—in

The day of the eclipse was the moment of truth.

fact, he did not even include an entry for August 7, 1869. With the school year approaching and many preparations to occupy him, one can imagine he had

little time to celebrate his triumph.

In the years following the eclipse, Craven continued to dabble in astronomy. Among the Rubenstein Library's collec-

THEN&NOW SUMMER SCHOOL

1878

Trinity College begins the **Summer Normal School** for teachers, believed to be the first summer-education program at the Randolph County college. The school lasted for two years.



Circa 1925-1926

Students gather at **Lake Junaluska**, a village with a classroom built by the Methodist Episcopal Church. South: The divinity school sponsored a formal summer program in the North Carolina mountains from 1928 to 1941.

1938

Duke's marine laboratory opens on Pivers Island near Beaufort, offering summer classes and field work for its students. Today, the marine lab hosts year-round instruction and research.



Smoking Spiritualized.

The following unique and beautiful "Meditation on Smoking Tobacco," was written two hundred years ago, by Rev. Ralph Ershire, of Scotland. It is like good wine that improves with age:

The Indian weed now withered quite,
The green at noon, cut down at night,
Shows thy decay;
All flesh is hay,
Thus think, and smoke tobacco.

The pipe, so lily-like and weak,
Does thus thy mortal state bespeak.
Thou art even such,
Gone with a touch,
Thus think, and smoke tobacco.

And when the smoke ascends on high,
Then thou behold'st the vanity
Of worldly stuff,
Gone with a puff,
Thus think, and smoke tobacco.

And when the pipe grows foul within,
Think of thy soul defiled with sin,
For then the fire,
It does requite,
Thus think, and smoke tobacco.

And scot the ashes cast away,
Then to thyself thou mayest say,
That to the dust
Return thou must,
Thus think, and smoke tobacco.

LIVE CATTLE WEIGHED BY MEASURE.—The only instrument necessary is a measure with feet and inch marks on it. The girth is the circumference of the animal just behind the shoulder blades. The length is the distance from the shoulder blades. The superficial feet are obtained by multiplying the girth and length. The following is the rule to ascertain the weight of the animal:
If less weight than 1 foot in girth, multiply superficial feet by 8.
If less than 3 and more than 1, multiply superficial feet by 11.
If less than 5 and more than 3, multiply superficial feet by 16.
If less than 7 and more than 5, multiply superficial feet by 25.
If less than 9 and more than 7, multiply superficial feet by 33.
If less than 11 and more than 9, multiply superficial feet by 42.
Example—Suppose the girth of the bullock to be 6 feet 3 inches; length, 8 feet 6 inches; the superficial area will then be 54, and, in accordance with the preceding rule, the weight will be 792 pounds.
Example—Suppose a pig to measure 1 girth 2 feet, and in length 1 foot 9 inches, there would then be 3½ feet, which, multiplied by 11, gives 38½ pounds as the weight of the animal when dressed. In this way, the weight of four quarters can be substantially ascertained during life.

SICK HEADACHE.—Koskoo has shown its great power over this distressing nervous affection, as well as in all others in which pain is the predominant symptom. It occurs most frequently in persons of nervous temperament, with weak digestive powers. Through some mysterious sympathy, the disturbance of the stomach, arising from the imperfectly digested contents, causes a severe pain in the head, accompanied with a disagreeable nausea, and this constitutes what is popularly known as sick headache. The curative effect of Koskoo upon the sick headache is truly wonderful.

Mr. Dobbliday says that he has one of the most obedient boys in the world. He tells him to do as he pleases, and he does it without a murmur.

7th Month,

JULY,



MOON'S PHASES

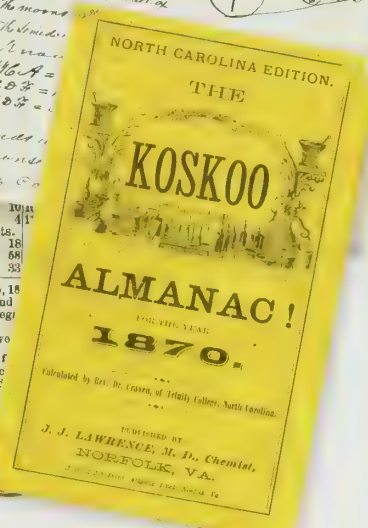
First Quarter..... 5 11 15 M. Last Quarter
Full Moon..... 12 6 21 M. New Moon.

Day Month.	Day Week	REMARKABLE DAYS.	SUN.
			Rises. Sets.
1	Fri	☉ in apogee.	4 48 7 19
2	Sat	Venus rises 2.29 m.	4 48 7 19
3	Su	Independence Day.	4 49 7 19
4	Mo	Vega south 11.39.	4 49 7 19
5	Tu	7 mls. deep earth red hot.	4 50 7 19
6	We	☿ in perigee.	4 51 7 19
7	Th	Antares south 9.18.	4 51 7 19
8	Fri	☿ h d	4 52 7 19
9	Sat	Mars in Taurus.	4 53 7 19
10	Mo	Cesar born 100 B. C.	4 54 7 19
11	Tu	☿ h d	4 55 7 19
12	We	☿ h d	4 56 7 19
13	Th	Altair south 4 m.	4 57 7 19
14	Th	Bread is nearly half water.	4 58 7 19
15	Th	Mars rises 3.02 m.	4 59 7 19
16	Sat	Apple is native of Persia.	4 59 7 19
17	Su	Money first coined in Lydia.	4 59 7 19
18	Mo	Jupiter rises 2.11 m.	4 59 7 19
19	Tu	Hesiod oldest Greek poet.	4 59 7 19
20	We	☿ in apogee.	4 59 7 19
21	Th	Algenib south 4.6 m.	4 59 7 19
22	Fri	Atlantic telegraph 1865.	4 59 7 19
23	Sat	☿ h d	4 59 7 19
24	Su	☿ h d	4 59 7 19
25	Mo	☿ h d	4 59 7 19
26	Tu	Delphi oracle of Apollo.	4 59 7 19
27	We	Danubia oracle of Jupiter.	4 59 7 19
28	Th	☉ eclipsed invis.	4 59 7 19
29	Fri	☉ eclipsed invis.	4 59 7 19
30	Sat	☉ eclipsed invis.	4 59 7 19
31	Su	There were nine muses.	4 59 7 19

This is to certify that I have taken Koskoo for kidney disease and debility, and that under its use my health has been restored. I regret a medicine of extraordinary value.

W. H. KIRBY, Day Book office, 15 Roanoke ave.
HADN'T TIME.—An itinerant merchant, meeting one of his own the other day, whose pony might be considered a beautiful specimen, remonstrated with the owner, and asked him if he ever fed "Ever fed him?—that's a good un," was the reply. "He's got a half of oats at home now, only he hasn't got any time to eat 'em." Koskoo purifies the blood.

Handwritten notes in cursive script, likely related to the almanac's content or a personal journal entry.



Proof of prognostication: Detail from 1870 Koskoo Almanac!

tions is a small, bright-yellow pamphlet from 1870 titled *The Koskoo Almanac*, which listed Craven's detailed predictions for the rise and fall of the sun and moon, surrounded by advertisements for Koskoo, a supposed miracle cure derived from Mexican ivy. But if he was indeed afforded a chance to pursue his astrological interests with the Smithsonian, he gave no indica-

tions of a desire to leave Randolph County. He remained Trinity's president—and resident expert on just about everything—until his death in 1882.

At the time Craven made his calculations, there was no way of predicting that Trinity College would grow into Duke University, one of the largest research universities in the country. But the origins of

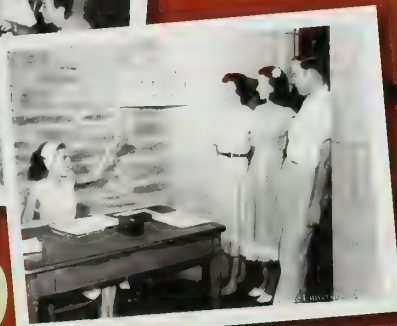
Duke's intellectual curiosity can be found in the young school—and its polymath president. On that day in August 1869, the sun may have gone out on Raleigh, but it shone brightly on Braxton Craven, and it was just beginning to dawn on his ambitions for Trinity College.

Gillispie is Duke's university archivist.

Students in a theater workshop show off their talents for construction—and pipe-smoking. This was likely part of a "Play Production" course offered through the English department.



No English is allowed during the summer **School of Spanish Studies**, an immersive language experience for undergraduate and graduate students. Noted foreign scholars were engaged to teach classes, and students were expected to communicate exclusively in Spanish.



1948 1949

2007
DukeEngage launches, providing immersive summer opportunities for undergraduates who serve communities across the U.S. and abroad.

Devil's Own

The 1974 debut of Dungeons & Dragons opened a whole new world for gamers and set off a cultural craze that persists today. But unlike the mostly online role-playing games of today, D&D served up fantasy with a certain dose of reality. Game sets included small alloy figures representing D&D's mythical creatures and heroic warriors, which were often hand-painted by passionate fans. While the need for the miniatures waned as the game evolved, they remained popular as collector's items.

Duke's David M. Rubenstein Rare Book & Manuscript Library owns a small army of these role-playing miniatures, thanks to Edwin '72 and Terry Murray. Avid collectors of pulp culture, the brothers began adding memorabilia from D&D and other role-playing games in the 1970s and soon had amassed hundreds of game sets and figures. In 2002, they donated them all as part of a massive pulp-culture collection. The gift, which included some 55,000 comic books and 1,150 fanzines, filled up 918 archival boxes. Thirty-one of those boxes house unopened packages of miniatures, and another four contain pieces that were hand-painted, some by the Murray brothers themselves.

—Mike Schreiner



ACTUAL SIZE

2"

Les Todd



2012 HOMECOMING WEEKEND

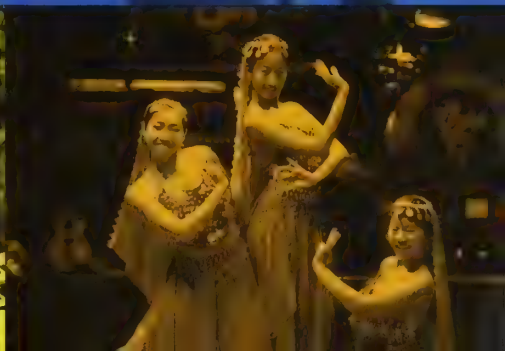
SEPTEMBER 21 - 23

Autumn is a great time for alumni of all ages, as well as students, to engage, connect, and celebrate on campus. This year's Homecoming weekend includes the Duke vs. Memphis football game, the President's Dance, the NPHC Step Show, a celebration of 100 Years of Duke Football, affinity group gatherings, and more!

START PLANNING YOUR AFFINITY GROUP REUNION NOW by contacting Marion Kennedy '09, DAA program coordinator for affinity and volunteer programs, Marion.Kennedy@duke.edu.

Duke
ALUMNI ASSOCIATION

www.homecoming.dukealumni.com



DUKE

DUKE UNIVERSITY, BOX 90572
DURHAM, NORTH CAROLINA 27708-0572

C-00
PERIODICALS
PERKINS LIBRARY
BOX 90180

NONPROFIT ORG
U.S. Postage
PAID
PPCO

557

A Tradition of Excellence

We are your place for officially licensed
Duke merchandise.

With thousands of products to choose
from, we offer the largest selection of
everything Duke. Shop with us 24/7 via
our online catalog and place your order
securely anytime, day or night.

Browse our online catalog @

www.shopdukestores.duke.edu

016 West Union Building | Box 90850
Durham, NC 27708-0850

One Team. One Common Goal.
To Provide Quality Service & Products to the Duke University Community.



DUKE

SEPTEMBER-OCTOBER 2012

MAGAZINE

RECEIVED
OCT 10 2012
DUKE UNIVERSITY LIB

Ideas INTO Action

How philanthropy has fueled
a legacy of big thinking

24



A portrait of James F. Bonk, an older man with glasses, wearing a dark suit, white shirt, and a blue and white striped tie. He is smiling and holding a book titled "Chemical Principles" with a colorful abstract cover. The book is held in his left hand, and his right hand is resting on the bottom edge of the book.

James Bonk

A Duke Legend

James F. Bonk's enduring legacy at Duke is as the founding father of "Bonkistry" — the introductory chemistry class that he taught for more than four decades.

During his long Duke career, Dr. Bonk taught more than 35,000 students and made numerous contributions to the growth and development of the sciences at Duke. As director of undergraduate studies, he developed chemistry courses, advised students, and managed the department's independent study program. He helped design the lecture hall and teaching laboratories in Gross Chemistry Lab as well as the teaching labs in the French Family Science Center. His contributions as a teacher at Duke have been acknowledged with several awards, including the David and Janet Vaughn Brooks Distinguished Teaching Award, the Dean's Distinguished Service Award, and last year, the university's highest honor, the University Medal.

Tennis remained a passion of Dr. Bonk's. Self-taught, he began playing tennis as an undergraduate and later competed on his college team. While on the faculty at Duke, he served as volunteer assistant coach for the men's tennis team and as a trusted team advisor. In recognition of his role, Duke has named the trophy room in the Sheffield Tennis Center and a court in Ambler Tennis Stadium in Dr. Bonk's honor.

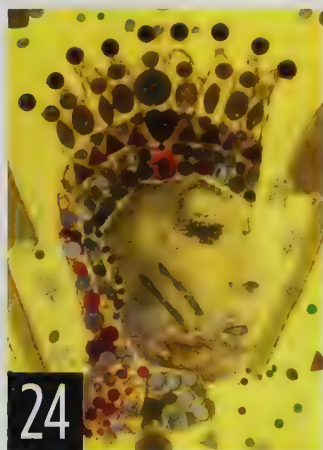
A member of the Duke Heritage Society and the James B. Duke Society, Dr. Bonk established a bequest intention to fund the James F. Bonk Tennis Scholarship. "Duke provided me with the opportunity to teach chemistry at one of the finest universities in the world," he said. "This scholarship is my gift to future Duke students. I hope others will consider making a similar commitment through their estate plans."

To learn about deferred giving at Duke, explore <http://giving.duke.edu/giftplanning> or contact:

DUKE UNIVERSITY
GIFT PLANNING

Duke University Office of Gift Planning
Box 90600
Durham, North Carolina 27708
Phone (919) 681-0464
Fax (919) 684-9731
Email gift.planning@dev.duke.edu

FEATURES



Courtesy Duke Hall Lab



V. Culum Rogers



Donn Young



Youghn Kim

COVER

Go Forward, Boldly

By Robert J. Bliwise

The new Duke Forward campaign isn't just about maintaining Duke's progress. It's about supporting a campus that does best when it thinks big.

Rivertown Revival

By Fiona Morgan

On the banks of the Haw River, a family of Duke alumni rebuilds Saxapahaw, bringing a mill town with a storied past into the present.

Follow the Joy

By Paul Baerman

Undergrads take on faculty in an annual contest that's redefining the Duke culture. What's the big deal about entrepreneurship?

Living the Brand

By Daniel Riley

Maneesh Goyal '97 turned a knack for throwing a great party into a marketing powerhouse by making people want what they never knew they wanted.

COVER: Illustration by Kazu Nitta

DEPARTMENTS

4 Forum

7 THE Quad

Free Duke courses on a computer near you; plus, students on the stump, and a trove of old graffiti, rediscovered



19 Ideas

No, you can't multitask while driving

22 Observer

A student's ministry fellowship is a moving experience

53 Muse

An alum's book solves the crime of the century



56 Sports

Duke's medal-winning divers, back for an encore

59 ForeverDuke

DAA activities and connections

63 ClassNotes

77 Classifieds

78 Retro

Custodian's small gesture has a large legacy

80 Devil's Own

A sewing kit that weaves an intriguing tale



FULLFRAME

First Impression: Members of the Class of 2016 let out a collective cheer as they line up for their class photo. Read more about Duke's newest cohort on page 8. *Photo by Jon Gardner.*





EDITOR

Robert J. Bliwise A.M. '88

MANAGING EDITOR

Michael Penn

ASSOCIATE EDITOR

Bridget Booher '82, A.M. '92

CLAY FELKER MAGAZINE FELLOW

Elissa Lerner '08

STAFF ASSISTANT

Delecia Hatcher

PUBLISHER

Sterly L. Wilder '83, Associate Vice President, Alumni Affairs

STUDENT INTERNS

Dan Altman '15

Tim Lerow '15

Michael Schreiner '15

SPECIAL SECTIONS EDITOR

Jacob Dagger '03

DESIGN CONSULTANT

Lacey Chylack, phase5creative inc.

PRINTER

Progress Printing

OFFICERS, DUKE ALUMNI ASSOCIATION

Jeff Howard '76, president

Sterly L. Wilder '83, secretary-treasurer

EDITORIAL ADVISORY BOARD

Peter Applebome '71, chair

Sarah Hardesty Bray '72; James Burnett '98

William Cohan '81; Jennifer Farmer '96

Jerrold K. Footlick; Robbyn Footlick '85

Edward M. Gomez '79; Devin Gordon '98

Kerry E. Hannon '82; John Harwood '78

Dave Karger '95; Sara Lipka '01; Julia Livshin '96

Valerie A. May '77; Susannah Meadows '95

N. Page Murray III '85; Will Pearson '01

Lauren Porcaro '96; Shaun Raviv '01

Jim Rosenfield '81; Jon Scher '84

Lesley Jane Seymour '78; Elizabeth Spiers '99

Greg Veis '03; James O. Wilson '74

Robert J. Bliwise A.M. '88, secretary

Clay Felker '51, founding chair

DUKE MAGAZINE

Box 90572, Durham, N.C. 27708

PHONE: (919) 684-5114; FAX: (919) 681-1659

E-MAIL: dukemag@duke.edu

ADDRESS CHANGES

Alumni Records, Box 90581, Durham, N.C. 27708

or e-mail: bluedevil@duke.edu

© 2012 Duke University

Published bimonthly by the Duke Alumni Association



Forum

UNDER |||| GARGOYLES

Students today: If there's one generational quality they share, it's their tendency to be self-revealing in their wired lives. At least a rough measure of the newest class, the Class of 2016, can be taken through their constantly evolving collective self-portrait—including their orientation-period Twitter postings.

In the Class of 2016 Twitterverse, early impressions are, of course, embellished by excitement-signaling exclamation points, as in, "College is so epic! Duke is so incredible!" and "The campus is so alive!" Then there's the sense of long-postponed reward and redemption (accompanied by characteristically compressed phrasing): "Why didn't I go to college sooner?" There are accounts, revealing in their own way, of consumption habits in a new campus environment: "Pegram invaded Whole Foods," or "The Super Target in Durham is totally cleaned out"—perhaps linked with the observation that "I really like my new room especially since I have a walk-in closet."

And there are expressions that belong in their own (over-the-top) category: "Omg so overwhelmed omg omg omg #Duke2016 #soexcited!!!!"

Caught up as they are in sharing what's new to them and what's familiar to long-timers, the first-year Tweeters sent forth a set of orientation images: encountering a giant inflatable water slide; taking in a jazz performance at the East Campus coffeehouse, an outdoor movie-screen showing of *Ferris Bueller's Day Off*, and a Durham Bulls game; painting the East Campus bridge; and lining up for the classic class photo.

It's also revealing to see how Christoph Guttentag, dean of undergraduate admissions, showcases the class to itself—and to the assembled university officials—during Convocation in August. (For freshmen, the setting is the Duke Chapel; their parents have a remote-viewing opportunity in Page Auditorium, a separation that anticipates the larger and longer separation to come.)

As he usually does, Guttentag singled out some unusual achievers. The class includes one student who created a third-party voter-registration organization, one who was recognized as the longest-serving volunteer at a zoo, one who organized the weekly picking of more than 1,000 pounds of fresh fruit from neighborhood trees to be delivered to the local rescue mission, one who won a state title in Golden Gloves boxing, one who owned a karate school at the age of sixteen, one who won a national title in Tae Kwon Do, one who galvanized a neighborhood to force the cleanup of a local toxic-waste site, one who performed research that was published and presented

at a conference in behavioral anthropology, one who appeared in the movie *Little Miss Sunshine*, and one who performed as a child soloist with the Metropolitan Opera.

"One of you has survived a life-threatening grizzly-bear attack in the Talkeetna Mountains of Alaska," Guttentag told the class. "After that, how hard can finals be?"

—Robert J. Bliwise, editor



Class of 2016: One view of a fascinatingly diverse, self-reflecting group of students

LETTERS

All About Ethics

"What's In It for Me?" [May-June 2012] is a very insightful treatise. The only difficulty is that people would have to be ethical in the first place. Most people will not sacrifice their well-being for a proposed benefit to society in general. Unfortunately, the incentive system is so ingrained in the world that if it were eliminated, the wheels of commerce would stop turning and you could be inviting another financial meltdown.



If one does not consider the plight of fellow human beings then the whole purpose of education is lost. —FREDERICK SARGOLINI

People have not had enough exposure to philosophy. My first two years of college were at Duke University. I had a very difficult premed course, and [was not able to compete with] students who had come fully prepared to take advantage of all the university could offer.

There was no ethical preparation at Duke, so I transferred to Fairfield University, a Jesuit institution that stresses a total appreciation of religion and philosophy. When you go through that much ethical training, your perspective changes. The primary objective is not only to be a good doctor, but also to be a good person. [Without philosophy and ethics, college] becomes survival of the fittest, getting ahead in any way as long as it is legal. If one does not consider the plight of fellow human beings then the whole purpose of education is lost. [Instead of caring for those who are less fortunate,] you will care about how much power and money you can amass in the shortest possible time. The complete picture describes many on Wall Street, and will usually result in the big financial failure we have been enduring these last four years. Let's hope the principles outlined here become pervasive in business circles. If not, we are in for a long, hard ride.

*Frederick Sargolini '60
Hamden, Connecticut
[commenting online at
dukemagazine.duke.edu]*

Kudos

The July-August 2012 issue was magnificent. It repeated many environmental and sociological themes that my partner and I discussed during our summer break for several weeks in the mountains of northern Vermont.

*Douglass T. Davidoff '80
Arlington, Massachusetts*

to Crayton. I'm very glad that both are at Duke.

*Richard Langston Snodgrass J.D. '66
Lewiston, Maine*

Tong is one of the most gifted, visionary, and courageous students I have met in fifteen years at Duke. His deep intelligence and gracious example have inspired and improved me.

*Maurice Wallace Ph.D. '95
Associate Professor of English and African
and African American Studies, Duke
[commenting online]*

Tong for President

Cherry Crayton's article "Brick by Brick" [July-August 2012] describing junior Nyuol Tong's life experiences, struggles, aspirations, and achievements is powerful, inspiring, well-written, and thorough. She presents Nyuol Tong as a very remarkable leader—a superb hero who triumphs out of his struggles, but very real. With a little good fortune he should someday be his nation's president.

She also makes clear that Tong's awe-inspiring success in bringing education to his people demonstrates, as Tong says, that personal philosophy can be a tool used at its best when applied to meet the great challenges of life. This article should be on the reading list for Introduction to Western Philosophy courses.

Highest admiration for Tong. Kudos

Classroom Flip

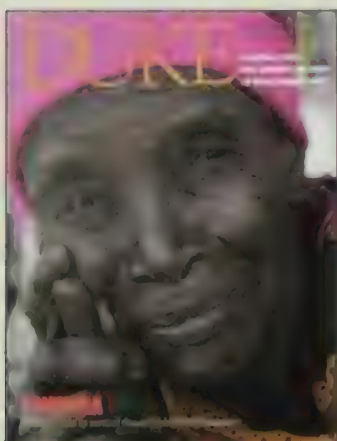
I was both saddened and overjoyed to read "Flipping the Classroom" about Dr. Stephen Craig's work to overhaul the traditional lecture format of chemistry courses [July-August 2012]. Dr. Craig was one of the most talented and enthusiastic lecturers I had the privilege of learning from while at Duke (in his organic chemistry course in 2009), and I am confident his prowess at the whiteboard will be missed. Nonetheless, I am thrilled to learn of his efforts to be an innovator in the classroom. His experiment in the honors chemistry course melds



Announcing *Duke Magazine* special editions



We're trying something new with this issue of *Duke Magazine*. We've prepared a special section devoted to the Fuqua School of Business, which appears only in magazines sent to Fuqua alumni. This innovation—a partnership between *Duke Magazine* and Fuqua's external relations team—is a first step toward delivering a more-personalized edition of *Duke Magazine* that is tailored to readers' unique interests. Watch for more customized special sections in the future.



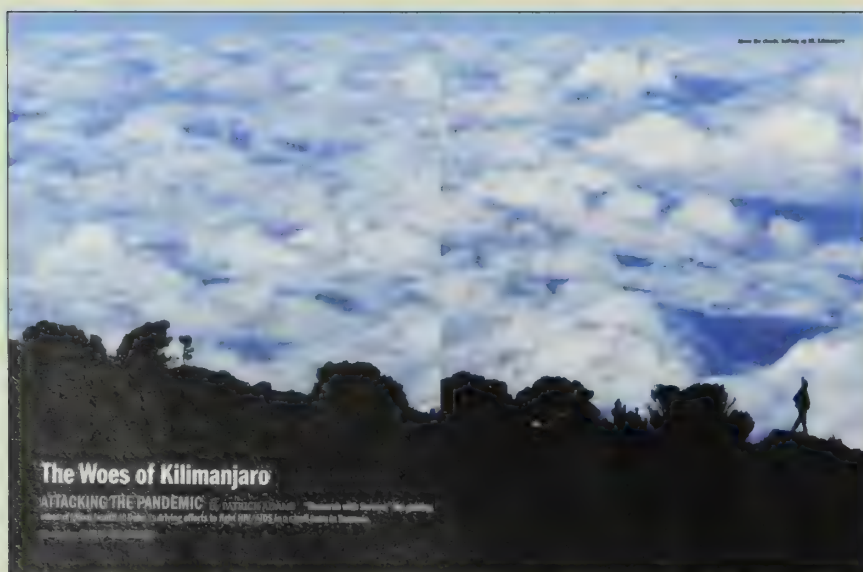
The magazine's cover story in January-February 2005 looked at Duke's efforts to fight HIV/AIDS in Tanzania.

The story ended with an observation from Duke's Barton Haynes, a national leader in HIV/AIDS research: "Other scientists ask me why I am trying to work on vaccines that have been so difficult to develop. And my answer to them is this: 'These are the greatest pandemics the modern world has faced. Why are *you* not working on them?'"

Now Haynes HS '75 is director of the Center for HIV/AIDS Vaccine Immunology and Immunogen Discovery (CHAVI-ID), as well as director of the Duke Human Vaccine Institute. And he will be the Duke director of a large, seven-year grant for CHAVI-ID that will fund a highly focused program to discover how to induce the precise immune factors needed for effective vaccines against HIV.

For its role in the program, Duke will receive \$19.9 million for the first year, according to the National Institute of Allergy and Infectious Diseases. The institute originally established CHAVI-ID in response to recommendations of the Global HIV Vaccine Enterprise, a virtual consortium endorsed by world leaders at a G-8 summit in June 2004. Scripps Research Institute was selected as a second center to receive grant funding. The CHAVI-ID initiative overall may receive as much as \$186 million or more over seven years; Duke may receive more than \$139 million in total over the same period.

Those aren't the only resources targeting the pandemic: Also this summer, the Bill and Melinda Gates Foundation awarded a three-year, \$8.9 million grant to Haynes for work on developing vaccines that can induce certain antibodies for preventing HIV-1 infection.



adult learning theory, critical thinking, and teamwork to provide a rigorous education and ultimately realistic preparation for graduate school or careers. I am also pleased to know other lecturers and departments are taking note.

*Sarah J. Haseltine '08
Reading, Pennsylvania*

Leading Light

Highly interesting history of solar eclipse predictions ["President, Astronomer," July-August 2012]. The article very appropriately and perfectly frames Braxton Craven's picture within the solar disc. Great personality indeed he was.

Satyendra Bhandari, commenting online

Hey, You Never Know

Well said, re: "Why Do People Buy Lottery Tickets?" [July-August 2012]. There is a very low probability of winning the lottery yet so many people waste their money playing it every day. Playing the lottery is just like taking your money and throwing it down the drain.

limbo32, commenting online

CORRECTIONS

An article on Henry Petroski's new book ["Failure Is an Option," July-August 2012] mistakenly referenced the space shuttle *Challenger* in quoting an excerpt from Petroski's book. The quote referred to the space shuttle *Columbia*, which was destroyed on re-entry in February 2003 after a failure of the ship's insulating foam.

In the July-August 2012 article "President, Astronomer," a typographical error mislabeled Braxton Craven's astronomical pursuits as "astrological interests."

The Bookbag article in the July-August 2012 issue incorrectly stated that law professor Donald Horowitz was spending the semester at Duke's new Washington offices. While he is using the facility for his course, he is spending the semester at the National Endowment for Democracy.

Send letters to: Box 90572, Durham, N.C. 27708 or e-mail dukemag@duke.edu. Please limit letters to 300 words and include your full name, address, and class year or Duke affiliation. We reserve the right to edit for length and clarity. Owing to space constraints, we are unable to print all letters received. Published letters represent the range of responses received. For additional letters: www.dukemagazine.duke.edu.



THE Quad

NOTEWORTHY FROM AROUND CAMPUS

Fresh colors: In an annual move-in tradition, students William Overton (bottom left), James Palmer, and Reilly Gorman decorate the East Campus Bridge with designs representing each East Campus dorm to welcome freshmen to their new home.

BY THE NUMBERS

Class of 2016

1,718

Total number of freshmen in Duke's entering class

49

Number of states represented (only Montana is absent in this year's class)

51

Number of countries

175

Number of freshmen from California and from North Carolina, states tied for first for sending the most freshmen

1

Number of freshmen who are licensed helicopter pilots

1,008

Number of hometowns represented in the freshman class

47

Percent of freshmen who are students of color, highest ever for Duke. The class also includes a record percentage of African-American students (11.5 percent) and Latino/a students (19.7 percent).

"More than anything, the trip reinforced the idea that the people I met during my travels are plenty equipped to address their own problems without outside meddling."

—Ahmad Jitan '13, on his experience traveling in Doha, Qatar, and Cairo as part of the pilot Duke in the Arab World summer study-abroad program (*The Chronicle*)



"You can get many of the same biochemical markers from saliva as blood.... It's less expensive and invasive, and you don't even have to have a person who is cooperative."

—Diane Holditch-Davis B.S.N. '73, Marcus E. Hobbs Distinguished Professor of nursing and host of the School of Nursing's "Spit Camp," a seminar on the clinical and research uses of saliva

"It's not easy, and it's definitely very time-consuming, but it's something I've gotten used to; I wouldn't want it any other way right now,"

—Douglas Hanna '13, on balancing his studies with his work as CEO of A Small Orange, a Web-hosting business with 30,000 customers and thirty-five employees (*Durham Herald-Sun*)

"My research over thirty-five years demonstrates that the effect of gun availability is not to increase the crime rate but to intensify the crime that exists and convert assaults into murders. I have never seen evidence that gun access influences the volume of violent crime. But when you add guns to a violent situation, you get a higher level of murder."



—Philip J. Cook, professor of public policy, in the aftermath of the theater shootings in Aurora, Colorado (*The New York Times*)



Light moves: A dancer is silhouetted by light projected from "The Uncertain Museum," an interactive installation in the Nasher Museum.

Megan Morr

"We had only two rules: Don't look into the light, because it hurts; and don't touch the glass discs, because they're heavy glass discs."

—Wendy Hower Livingston, manager of marketing and communication for the Nasher Museum of Art, on the ground rules for an American Dance Festival class that used Nasher's walk-in installation "The Uncertain Museum" as a stage for a ten-minute performance

"I am an out and proud young gay man, and I am a Christian. That's an impossible concept for many people to get their heads around because for so much of the church's history the terms gay and Christian have been mutually exclusive."

—Jonathan York '15, testifying during a session at the July national convention of the Episcopal Church, during which bishops voted to allow priests to bless same-sex relationships

"There is really great writing out there. It may not suit everybody, but they shouldn't dismiss it because of memories of their mother's Harlequins."

—Katharine Brophy Dubois '89, visiting assistant professor of religion and history, on her success moonlighting as romance writer Katharine Ashe



"Ralph Lauren berets aside, the larger trends show that the tide has turned, and it is China's turn to worry.... Technical advances will soon lead to the same hollowing out of China's manufacturing industry that they have to U.S. industry over the past two decades."

—Vivek Wadhwa, executive-in-residence and adjunct professor in the Pratt School of Engineering, on why he thinks the controversy over U.S. Olympic team uniforms being manufactured in China will be short-lived (*Foreign Policy*)



Digital evolution: Biology professor Mohamed Noor will offer his evolution course online.

Noor photo by Chris Hildreth

Desktop Duke

University will begin offering free courses online.

Duke will join a dozen other universities in sharing course content on the Internet through Coursera, an online educational platform. The experiment, which begins with a handful of courses this fall, promises to change education both on and off campus.

The pilot courses—available free through Coursera’s website—will use video lectures and interactive quizzes and assignments to impart material. Lectures will be broken into segments as short as ten minutes, and students will have opportunities to interact through discussion forums and message boards. Courses typically will run from four to twelve weeks. Ten Duke faculty members have signed on to participate in the project, including such popular professors as biologist Mohamed Noor, behavioral economist Dan Ariely Ph.D. ’98, and philosopher Walter Sinnott-Armstrong.

Founded in 2011 by two Stanford professors, Coursera initially

offered courses from four universities: Stanford, Princeton, the University of Michigan, and the University of Pennsylvania. The company estimates it has nearly 1 million users in more than forty

countries. The move by twelve additional universities to sign on with Coursera—including the California Institute of Technology, the Johns Hopkins University, and the University of Virginia—is being hailed as one of the most significant developments in online learning, one that could reshape how universities share knowledge.

“Coursera has the potential to substantially influence how we teach our own students on campus, as well as to extend the reach of our faculty and show their intellectual strength on a global

scale,” says Provost Peter Lange. He adds that the partnership with Coursera is one of several Duke is exploring to improve teaching with technology.

Who’s Teaching Online?

These Duke courses are expected to be offered on Coursera in the coming year:

Introduction to Genetics and Evolution - Mohamed Noor, biology

A Beginner’s Guide to Irrational Behavior - Dan Ariely Ph.D. ’98, behavioral economics

Human Physiology - Emma Jakoi Ph.D. ’74 and Jennifer Carbrey, cell biology

Think Again: How to Reason and Argue - Walter Sinnott-Armstrong, philosophy

Medical Neuroscience - Leonard White, neuroscience

Bioelectricity: A Quantitative Approach - Roger Barr ’64, Ph.D. ’68, biomedical engineering

Health-Care Innovation and Entrepreneurship - Marilyn Lombardi, nursing, and B.D. Barnes, biomedical engineering

Introduction to Astronomy - Ronen Plesser, physics

FROM THE PRESIDENT

GOING TO DUKE

Reflections from a summer spent exploring Duke's connections around the state and nation

In the summer months, as students depart and the school grows quiet, it's my custom to visit Duke sites away from campus. Duke is anchored in Durham, but Duke isn't only what happens in Durham. Last summer I traveled to see our medical school in Singapore and global-health and DukeEngage sites in Uganda and Tanzania. But human challenges aren't confined to foreign countries, so this summer, I set off to watch Dukies bringing intelligence and creativity to bear on problems in our own state and nation.

The urge to reach beyond this physical campus goes back to Duke's earliest days. In the 1930s, faculty in zoology saw the special research value of Pivers Island, near Beaufort, where the ocean flows in and out of North Carolina's vast inland sea. Duke acquired the land and opened the Duke Marine Lab's first buildings in 1938—only three years after the dedication of Duke Chapel.

Thanks to this early venturesomeness, Duke is now a global leader in the study of oceans, coastal ecosystems, and marine life. As our understanding of the interdependence of human and marine life increases, with changes in the marine environment certain to affect human societies in complex ways, this early investment becomes more strategic than ever. In late July, I participated in the groundbreaking for the new Orrin Pilkey Marine Science & Conservation Genetics Center at Beaufort, which will allow Duke researchers to use the latest scientific tools to expand our understanding of this crucial dimension of the world we share.

Alumni communities are another way Duke reaches out from sea to shining sea.

One thriving new example can be found in the Duke Global Entrepreneurship Network, or DukeGEN. In the past eighteen months, Duke has given heightened priority to innovation and entrepreneurship, in recognition that universities will be called more and more to deliver inventive solutions to fundamental needs.

In the process, we've discovered a large number of alumni who identify themselves as entrepreneurs.

DukeGEN taps into that energy and provides ways for alumni—4,500 and counting—to network and share strategies across a range of for-profit and not-for-profit endeavors.

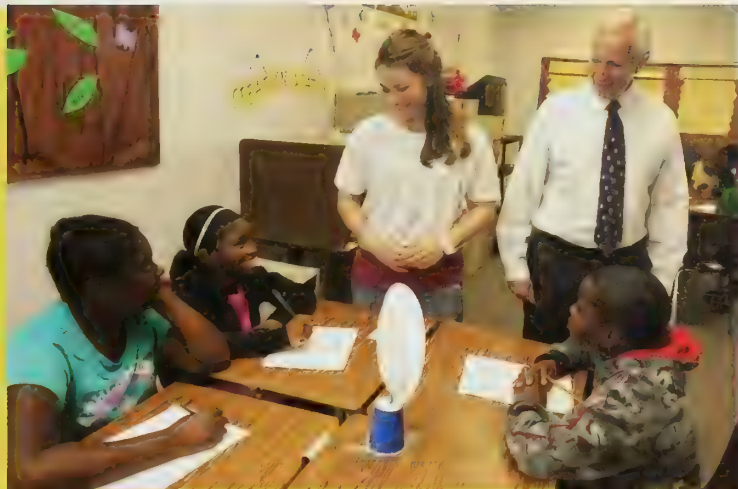
In San Francisco in early June, I dropped in on a DukeGEN Angel Pitch event held at a small-business incubator called Rocket-Space—in other words, a place built to launch. Alumni and current students with bright ideas had submitted business plans in advance, and five had been invited to pitch their start-

I saw Duke students using all their charm, resourcefulness, and generosity of spirit to lead younger, less-advantaged students forward.

ups before a panel of fellow Duke alumni in the venture-capital field—as well as a packed audience of curious peers. There was no shortage of invention, but the \$10,000 prize went to Ryan Luce '94 for a platform for connecting patients with clinical trials and educating them about potential benefits. The buzz in the room was palpable as the “veteran” entrepreneurs—some just a few years out of Duke themselves—served as mentors to those starting out. Another new meaning of what it means to “go to Duke.”

Closer to home, I saw the same engaged spirit being brought to bear on another problem area, K-12 education.

Over the years, Duke has developed a close relationship with the Freedom Schools and their founder, Marian Wright Edelman of the Children's Defense Fund. The Freedom Schools represent CDF's attempt to stem the summer learning loss that hampers the academic progress of children from economically disadvantaged communities. Research by Duke's Harris Cooper has shown that while children from middle-class families tend to advance their reading skills in summer



Duke engaged: Brodhead visits a Freedom School in Bennettsville, South Carolina, site of a DukeEngage project.

through exposure to enrichment activities, children from lower-income families tend to lose ground, ending the summer up to three months behind where they started.

The CDF's Freedom Schools have had a significant impact on this problem, and Duke has been an important contributor: We host a Freedom School for rising second- and third- graders on our own West Campus, and DukeEngage undergraduates have taught in Freedom Schools in Charlotte and Bennettsville, South Carolina, Edelman's hometown.

When I watched them in action in their classes, I saw Duke students using all their charm, resourcefulness, and generosity of spirit to lead younger, less-advantaged students forward. I know they will return to campus with a deepened grasp of the challenges and a deepened commitment to being part of the solution. Learning how strong civic organizations operate and learning their own powers as active citizens will be a crucial part of a Duke education for these students, even if learned far from Duke.

Nowadays, to “go to Duke” still means to join in the community of this campus. But increasingly, it also means to engage a whole world of connections that Duke gives access to, adding depth to each student's education. At Duke we believe that the training that can best prepare our students for meaningful lives is an education that is engaged with the realities of our time, envisioning solutions to real-world problems. As the footprint of our teaching, learning, and research expands, so does our understanding of the meaning of a Duke education.

—Richard H. Brodhead

Duke Kunshan Moves Ahead

China campus receives government approval.

China's Ministry of Education has granted preliminary approval for the creation of Duke Kunshan University, a key step in the progress of Duke's first international campus.

DKU, formed in partnership with Wuhan University and the city of Kunshan, is expected to open in the 2013-14 academic year. Construction on the six-building, 200-acre campus is under way in Kunshan, a rapidly expanding city located between Shanghai and Suzhou. The university's initial academic offerings are expected to in-

clude two graduate programs leading to Duke degrees—a master of management studies and a master of science in global health—as well as a one-semester undergraduate program in global health. DKU will house several research centers, beginning with a Global Health Research Center.

"Through DKU, Duke will play a leadership role in creating new models of world-class higher education in China, introducing students and faculty to Duke's signature strengths of education and the interdisciplinary study of contemporary

problems," President Richard H. Brodhead said in announcing the university's preliminary approval.

Brodhead said DKU will provide a base for the growing number of Duke faculty members who are conducting research in or pertaining to China and offer a laboratory for educational innovation.

The ministry's approval follows a thorough review of DKU's proposed academic, financial, and administrative programs. The ministry will need to give final approval before DKU can begin operations.

ONTHEPLAZA

Making Change

When Christine Schindler was five years old, she decided she wanted to be an artist. Then, sometime later, she realized it was Broadway that was right for her. And then writing became her future career.

It took Schindler until her senior year of high school to consider engineering, and she only did so because her parents told her it would be a good career to pursue. "Through high school, I just never really understood what engineering was," she says. "But I didn't really know what I wanted to do, so I just went with it."

In her first semester at Duke, she took an "Introduction to Global Health" class that connected engineering to her desire to make a tangible difference in the world. "I just realized how many problems exist in the world that could be solved by engineers," she says. But she also wondered how many

Christine Schindler '15

Major:

Biomedical engineering

Hometown:

Fairfax, Virginia

women, like herself, never considered engineering as a path to social change. While still a freshman, she started Girls Make Change Through Engineering, a pilot program that pairs college engineering students with middle- and high-school girls to design and build low-cost medical devices for clinics in the developing world.

In March, Schindler's idea got an unexpected endorsement at the Clinton Global Initiative (CGI) University, a conference for college students convened by former President Bill Clinton. "I went to the opening session when President Clinton was talking about different projects, and then he just mentions my name and my project," says Schindler. "It was just incredible support, and I could barely wrap my head around it."



Working for change: Christine Schindler with aspiring engineers, above, and former President Bill Clinton, right.



The project has since received a wave of publicity. Duke's chapter of Engineering World Health committed to funding its pilot stages, and Schindler made connections with global-health professionals at the CGI America conference in June, which she hopes will lead to long-term funding. She plans to evaluate the project with local schools this fall and hopes to expand it to other universities in the spring.

The biggest thrill, though, has been showing young girls a map where the devices they helped build would be used—and seeing them realize the impact their work will have.

"That [realization] is what made me start to actually get excited about engineering," Schindler says. "I just want to give younger girls the opportunity to see how they could do that also."

—Mike Schreiner

BOOKBAG

COMPSCI 420: MOBILE APPS: FROM CONCEPT TO CLIENT

The catalyst: Computer science professor Richard Lucic and lecturer Robert Duvall decided to co-teach the course after realizing the department did not offer a class that exposed students to the software-development process as it occurs in the business world. "If we don't teach it to them here, then whoever hires them has to teach it to them through on-the-job training," says Lucic.

The gist: The course is centered on the semester-long task of creating a mobile application. Students work in small groups to take projects from concept to completion, with the end goal of hatching a fully functioning app for mobile devices.

The twist: The students are teamed with real-world clients, which in the past have included an independent-film producer who wanted to create a microlending application and a museum curator looking to build a fun teaching tool. Last year, one group of students created an iPad app to help emergency-room doctors at Duke Hospital quickly

determine if a patient would benefit from a ventilator. "It's one thing to sit in front of your computer and write code," says Lucic. "It's another thing to go over to the hospital and visit the ER, where students can see actual patients being treated on ventilators."

"An ounce of planning is worth a ton of trial and error."

Assignment list: Teams must prepare presentations for clients at least once every other week, keeping the students on track and giving them experience in a work-like environment. "In most cases they do a better job of preparing when it's a real-world client," Lucic says. One of the key things students learn, he says, is that "an ounce of planning is worth a ton of trial and error."

What you missed: In one recent session, students spent time with Duke's improv comedy group to improve teamwork and trust.

—Mike Schreiner



Lifting voices: A music major in college, Powery often fills his teachings with song.

Powery at the Pulpit

New chapel dean is a compelling, compassionate minister.

Before he arrived on campus to begin his job as dean of the Duke Chapel, the Rev. Luke Powery already had broken new ground at Duke.

An ordained Baptist minister, Powery became the first African-American dean of the chapel when he was named to the position in July. The thirty-eight-year-old pastor arrives from the Princeton Theological Seminary, where he was the Perry and Georgia Engle Assistant Professor of homiletics. He is known as a compelling preacher and compassionate minister committed to reaching across boundaries.

"He impressed me with his commitment to engaging both the Duke and Durham communities in dialogue," says Ashley Crowder Stanley '77, M.Div. '80, a university trustee, Methodist minister, and member of the search committee. Powery made an impression on the search committee, Stanley says, by stating, "Before I ever speak, I have to listen."

In addition to overseeing planned worship, counseling, and preaching, the dean of the chapel serves as a focal point for ethical and theological discussions

on campus covering a wide range of topical issues. Powery will oversee more than thirty campus ministers and chaplains who provide leadership to more than 1,500 Duke students involved in campus religious life.

Powery was born in New York but grew up in Miami, where his father was a minister in the Holiness-Pentecostal Church. He received a bachelor of arts degree from Stanford University, an M.Div. from Princeton Theological Seminary, and a Th.D. from the University of Toronto. His most recent book, *Dem Dry Bones: Preaching, Death, and Hope*, on the spirituals as a resource for preaching, was published in July by Fortress Press.

Before entering the academy, he was associate pastor of the International Protestant Church of Zurich, an interdenominational and intercultural congregation in Switzerland. He also has served as campus minister at Westminster Choir College of Rider University in New Jersey.

Powery succeeds the Rev. Samuel Wells, who returned to England this summer to become the vicar of St. Martin-in-the-Fields in London.

Archival Reunion

Duke's acquisition of religious leader's papers puts old friends back on the same page.

On the surface, Duke's recent acquisition of the collected documents of civil rights leader and theologian Rabbi Abraham Joshua Heschel is an academic and archival coup. The collection, which has never before been available to scholars, spans five decades and at least four languages, including notes and drafts for nearly all of Heschel's published works, as well as intimate and extensive correspondence with some of the leading religious figures of his time.

But scratch a little deeper and you'll find the threads of a friendship between two families that brought Heschel's papers to Duke.

Those threads begin with Eric Meyers, Bernice and Morton Lerner Professor of religion and director of the Duke Center for Jewish Studies. Meyers' uncle, Marshall T. Meyer, was a student and longtime friend of Heschel's who went on to become one of the leading voices for human rights in Argentina in the 1970s and '80s. Meyers recalls babysitting for Heschel's daughter, Susannah, when he visited his uncle in New York in the 1960s.

Although both Meyers and his uncle are alumni of Dartmouth College, Meyers found a home for his uncle's papers at Duke's Rubenstein Rare Book and Manuscript Library. Susannah Heschel, also at Dartmouth as a professor of Jewish studies, spoke at the collection's dedication in 2006. "She expressed very warm feelings for the impact that her father had had on Marshall," Meyers says.



Life's work: Photographs and other items, including a 1935 Nazi-issued work permit, from the Abraham Joshua Heschel archive

That put Duke in a favorable position to acquire the documents of her father, considered one of the most influential religious leaders of the past century. Heschel walked alongside the Rev. Martin Luther King Jr. in civil rights marches in Selma, Alabama, and was a leading figure in protests against the Vietnam War.

"Together, these two collections represent almost a century of social justice thought and action and provide an important connection between the civil rights and human rights movements," says Patrick Stawski, human rights archivist at the Rubenstein library. They also represent a commitment to learning and history shared among friends. "Reuniting them archivally is an important achievement," says Meyers.

—Elissa Lerner



Joshua Sage Newman

Duke Performances: Partly Cloudy

Gospel quartet The Mighty Clouds of Joy will light up the Hayti Heritage Center for two shows in November, one of the highlights of Duke Performances' 2012-13 season. Beyond featuring an always-eclectic mix of music, dance, and spoken word, the performance series puts artists in appropriately evocative venues. This year's lineup features indie rock at Motorco Music Hall, smoky jazz at the Casbah nightclub, and a choral performance at Duke Chapel. Watch for gypsy brass band Fanfare Ciocarlia; neo-soul singer-songwriter Meshell Ndegeocello; off-kilter comic and vocal percussionist Reggie Watts; tap dancer Savion Glover; cabaret diva Meow Meow; and the eighty-member Chinese National Symphony Orchestra.

Maxing Out the Visa

Brodhead: Foreign students should be allowed to stay past graduation.

Like most students entering their final year of school, Pan Wu is looking for a job. But for Wu, who will earn his Ph.D. in chemistry in May of next year, the stakes of that search are especially high. If he does not find employment quickly, he will have to return to China.

Wu's predicament is one shared by thousands of foreign-born students who graduate from U.S. universities each year. Unless they have job offers that qualify them for work visas, most have no legal option to stay in the U.S. after graduating—an aspect of immigration policy that many university leaders decry as detrimental not merely to students, but also to the U.S.'s position as a leader in innovation.

In June, President Richard H. Brodhead joined the leaders of more than seventy-five U.S. universities in making a case for less-restrictive policies for international scholars. The joint letter, which called on the White House and Congress to create easier routes to obtaining work visas, cited research from the Partnership for a New American Economy showing that 76 percent of patents resulting from university research have a foreign-born inventor.

"Each year, bright, talented students from around the world

come to Duke to pursue graduate degrees," Brodhead said in a statement explaining Duke's position. "Along with their academic training, they absorb an American approach to thinking, problem-solving, and innovating, and they graduate with skills that can lead directly to new companies and jobs for our country. It's in our national interest to keep them here."

Li-Chen Chin, director of Duke's International House, points out that Canada, Australia, and the United Kingdom—the U.S.'s chief competitors for recruiting international talent—all have more-relaxed immigration policies for graduating students than the U.S.'s.

"You're making an investment in the best and brightest the world has to offer," says Chin. "So after their degree, you want to see a return on the investment."

Wu agrees, saying, "a lot of people would benefit" from looser visa rules. He mentions a former classmate who wanted to launch a start-up business in the U.S., but learned visa restrictions made it nearly impossible to do so.

"It's really hard to stay here and do anything out of academics, so he quit his Ph.D. and went back to China to start a company," says Wu. If he'd had a start-up visa or green card for students, that would have helped

him to "start his company here and recruit employees of the U.S.," he adds.

—Elissa Lerner

"It's in our national interest to keep them here."



Seeking opportunity: Visa issues can complicate postgraduate life for the nearly one in six Duke students who come from foreign countries.

Students on the Stump

Presidential campaigns tap Duke talent to make their case.

As North Carolina shapes up to be a key swing state in November's presidential election, two Duke students—Daniel Strunk '14 and Elena Botella '13—are playing leadership roles in helping their candidates land the state's fifteen electoral votes.

Strunk, the college manager for North Carolina Young Americans for Romney, is coordinating efforts among fifteen (and counting) college-student organizations working to elect former Gov. Mitt Romney to the White House. He helps the campaign formulate outreach effort with specific demographics, such as Latino students and women. As the election nears, he will lead volunteers in planning campus events and phonathons.

The campaign is the first foray into partisan politics for Strunk, who has not been

involved in Duke's College Republicans. "A lot of organizations on college campuses are geared toward Republicans, and while I didn't create everything, I was able to get this organization up and running to help [Romney's] campaign in North Carolina," he says. He attended the party's nominating convention in August, carrying with him fifty-six North Carolina state pins and a goal of trading them all away.

On the other side of the race is Botella, president of the College Democrats of North Carolina chapter and former president of Duke Democrats. Botella was selected to serve as a North Carolina



delegate at the Democratic National Convention in Charlotte, her hometown. In addition to voting on her party's platform, she helped plan convention events for the College Democrats of America and promote President Obama's public acceptance speech. Her focus now is on building momentum toward November.

"I want to help students turn out to vote, help students become leaders, and help communities to turn out to vote," she says. "We need to make an investment in the leadership capacity of students and keep being leaders going forward."

—Elissa Lerner

Booster Shot

Duke receives funding to expand training of advanced nurses.

With the nation's health-care system facing a potentially critical shortage of nurses, Duke Medicine has announced it will double the number of advanced-practice nurses it trains, adding more than 200 trainees by 2016.

The move is part of a four-year, \$200 million project by the U.S. Department of Health and Human Services to increase the number of nurses with advanced degrees who can deliver primary care. Duke is one of five U.S. hospitals receiving HHS funding.

According to the American Association of Colleges of Nursing, as many as 1.2 million additional nurses will be needed by 2020

to fill newly created jobs and replace retiring nurses. But nursing schools are facing their own challenges recruiting and hiring teachers to train those additional students.

"Nurse practitioners and nurse anesthetists are at the forefront of providing care to thousands of people every day, and the need for these highly qualified nurses will continue to increase dramatically," says Catherine Gilliss B.S.N. '71, dean of the nursing school and vice chancellor for nursing affairs. Beyond providing education and training, she says, the HHS project "is also important in shaping federal policy in support of advanced-level nurses."

PLANETDUKE | South Africa

At a Glance

Current students who were born in South Africa:

9

South African nationals working at Duke:

20

Alumni living in South Africa:

8

Number of undergraduate students who traveled to South Africa with university programs in 2011:

105

Key Duke connections:

- Semester-long Duke in South Africa study-abroad program on savanna ecology, based in Kruger National Park
- DukeEngage programs in Cape Town and Durban
- "Global Health Issues in South Africa," a summer course launched in 2011, integrates classroom and field study
- Duke Corporate Education has provided executive education to clients such as Standard Bank, Anglo Platinum, and Rand Merchant Bank
- The divinity school offers field studies in South Africa and has a partnership with the Methodist Church of Southern Africa to facilitate ministry in the country

Immersed in History

As one of the faculty leaders of the university's DukeEngage program in Cape Town, William Chafe has seen the profound effect being in South Africa can have on undergrads. But he often felt the service-based trips barely scratched the surface of the country's deep racial and cultural history.

Enter Duke Immerse, a new semester-long program that marries the foreign experience of a DukeEngage trip with the intensive curricular style of a Focus program. Last fall, Chafe, the Alice

Mary Baldwin Professor of history and a noted author on gender and racial issues, led one of two pilot Duke Immerse programs, a four-course track that compared modern civil rights movements in the U.S. and South Africa, culminating in a three-week study trip through the African nation.

"It was the most intellectually stimulating and rewarding teaching in my forty years [of teaching]," says Chafe.

Twelve students made the trip, along with Chafe and visiting as-

sistant professor Karin Shapiro, a historian of U.S. and South African politics. The students met with activists and leaders around the country, from Johannesburg to the Drakensburg Mountains to KwaZulu-Natal to Cape Town, visiting iconic sites such as the Voortrekker Monument and Freedom Park.

The academic focus and the powerful group dynamic among the travelers made the experience fundamentally different from other study-abroad trips, Chafe says. "It gave everyone an amazing sense of the reality of what the period was all about. It had a transformative effect on people's minds and their vision of the world."

—Elissa Lerner



Immersion experience: Students visit the site of Nelson Mandela's primary school.

Writing on the Wall

Library rediscovers lost voices in works of student graffiti.

In the dim, hushed depths of the library, the hidden voices of generations of Duke students are speaking again.

They have been awakened through graffiti—decades-old thoughts, pictures, quips, and silly curses that were etched over the years on walls, desks, chairs, and shelves in the library stacks. Staff members rediscovered the graffiti this summer while cleaning out storage areas that were once part of the old Perkins Library stacks, giving new oxygen to the scrawled angst and boredom of hundreds of past students.

On a well-worn, wooden desk—all right angles and strong, creaky drawers—there are lyrics to a long-ago popular Pink Floyd song, written meticulously in thick, black marker. It sandwiches a Frank Zappa tune.

On a nearby shelf, a boy declares his love for a girl. On another, a pencil-scrawled debate rages over whether those “damn Yankee” Duke students from the North should just go home already.

“Yes, it’s true,” one student writes on a countertop. “I’m here in the library (Gulp) counting, shudder, shudder. I’ve caught that terrible disease. Maybe I will only take 4 classes next semester. Well, can’t waste anymore time writing. Gotta hit them books. (Gag).”

It’s like a Facebook wall, about twenty years early.

“It’s pre-social media, connecting with people in your sphere,” notes Will Hansen, assistant curator of collections for the David M. Rubenstein Rare Book and Manuscript Library. “It’s mostly Duke students talking to other Duke students.”

The graffiti owe their second act to the massive Rubenstein Library renovation project, which started this fall. Library staff members spent much of the summer moving seven floors of books, pamphlets, sheet music, and other materials to

It’s like a Facebook wall, about twenty years early.

temporary storage, uncovering parts of the library that had long been hidden from public view. But the graffiti’s new life will be brief. Most of it will be scrubbed over or discarded as part of the renovations, which are scheduled to continue through 2015. Library staff members are docu-

menting some of it, keeping an archive on a Flickr page.

Not all of it merits preservation, of course. Much is profane and sexual, such as the numerous notes found in a corner nook where so many young couples boast of consummating their, ahem, unwritten graduation requirement.

But there’s artistry, as well, like the penciled portrait of Bart Simpson and the odd series of gravestones with a weeping willow arching ever so delicately over them.

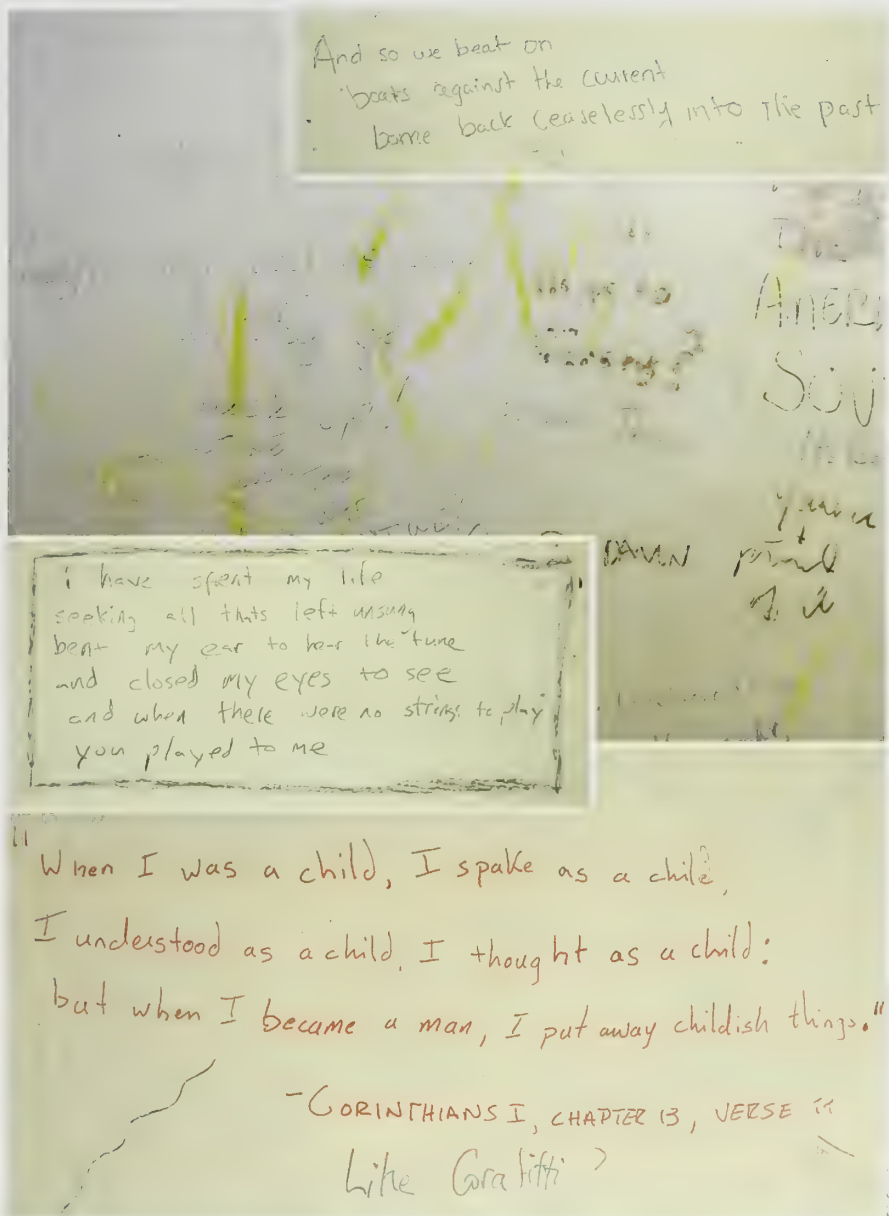
And there’s poetry. Lots of poetry. In a dark corner of the seventh-floor annex, a

section of T.S. Eliot’s classic “The Waste Land” is penned near another all-time classic, “Badlands,” by Bruce Springsteen, the poet laureate of New Jersey.

Gray Harley was an eighteen-year-old freshman in 1990 when he etched his name and the date “11/6/90” into a library desk and drew a circle around it. Now a forty-year-old lawyer in Charleston, South Carolina, Harley laughed when presented proof of his low-level vandalism.

“I hate to think I was putting graffiti in the stacks but I guess I did,” says Harley, who graduated from Duke in 1994 with an English major. “That’s what immature eighteen-year-olds do; they write on desks.”

—Eric Ferreri



Scrawls of time: Graffiti uncovered during the library's renovations

Eric Ferreri

DUKE360

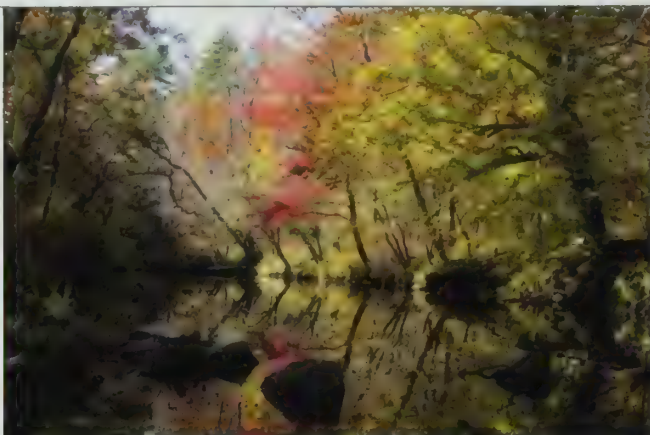
Where the Wild Things Are

In twenty years of exploring the deepest pockets of campus, Jeffrey Phippen Ph.D. '91 has become the unofficial authority on Duke's wild side. An instructor and research associate in the Nicholas School of the Environment, Phippen leads a popular class that studies the variety of plants, insects, and animals on Duke's campus and in the 7,000-acre Duke Forest, where he also conducts biodiversity research. Here is a sample of what Phippen's formal and informal surveys reveal about stunningly diverse forms of life that call Duke home.

75
species of
broadleaf
trees



45
species of dragonflies



8
types of native orchids

150
species
of
birds



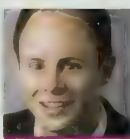
85
species of butterflies



60
species of
amphibians
and reptiles

Photos by Jeffrey Phippen unless otherwise noted

NOTABLE



- Duke added three new members to its board of trustees in July. **Kaveh Danesh** '12, a mathematics major who is currently a Fulbright Scholar in China, was named as the undergraduate young trustee. **Malik Burnett** '07, M.B.A. '12, M.D. '12 was selected as a young trustee by the Graduate and Professional Student Council. He is currently a general surgery resident at the University of Massachusetts School of Medicine.
- Computer science professor **Vincent Conitzer** has won the Presidential Early Career Award for Scientists and Engineers, the highest honor the federal government gives to young scientists. Conitzer was recognized for his "ground-breaking work on computational aspects of game theory, social choice, and mechanism design," according to a White House statement.
- **Alex Hartemink** '94, the Alexander F. Hehmyer Associate Professor of computer science, statistical science, and biology, has been appointed director of Duke's computational biology and bioinformatics program. Based in the Duke Institute for Genome Sciences & Policy, the program is an integrative doctoral program encompassing the study of biology using computational and quantitative methods.
- **Thomas Nechyba**, professor of economics and public policy, has been named director of the Social Science Research Institute, one of seven interdisciplinary university institutes at Duke.
- **Kimerly Rorschach**, who has served as director of the Nasher Museum of Art since its opening in 2005, has resigned her position at Duke to become director of the Seattle Art Museum.
- The U.S. Senate voted to confirm law professor **Scott Silliman** as a judge on the U.S. Court of Military Commission Review. Silliman was nominated by President Barack Obama for the appellate court, which reviews military commission cases held at Guantanamo Bay.



Ideas

CERN

WHAT WE'VE LEARNED:

The Higgs Boson

In July, scientists at the Large Hadron Collider near Geneva, Switzerland, announced they might have found the Higgs boson, the long-sought subatomic particle that explains how the fundamental building blocks of molecules accumulate mass. **What does the discovery tell us about matter, the universe, and the future of physics?**

The Higgs boson exists—probably. Scientists said they found a particle “consistent” with the Higgs, but they stopped short of calling it a definite Higgs find. Duke physicist Al Goshaw, who worked on one of the Higgs-searching teams in Switzerland, says there’s no doubt a new particle has been found—“one that looks exactly like what we need for the Higgs.”

It may come in flavors. Mark Kruse, another Duke physicist involved in Higgs research, says there may be as many as five varieties of Higgs particle, and “it remains to be seen if what has been discovered is indeed the Higgs boson of the Standard Model.”

The discovery matters. The Standard Model—the simplest explanation for how physics works—relies on the Higgs boson; without it, there’s no way to explain how fundamental particles interact and combine, and thus no way to explain how complex molecules form. If scientists can verify the particle’s role, “we will be one step further in our quest for an understanding of what happened in the first trillionth of a second of the universe that made it what it is today,” says Kruse.

This isn’t the end for the Large Hadron Collider. The four-year-old LHC—built over a period of ten years largely to hunt for the Higgs—will shut down at the end of this year, but only so engineers can soup up its speed and energy. It will reopen in 2014 with a capacity to slam particles together at nearly twice the speed that is possible today, which may give physicists a glimpse of entirely new phenomena.

It’s also not the end for particle hunters. The U.S.-based Fermilab is about to launch a new experiment to search for particles that may reveal physics beyond the Standard Model. “Nature may be elusive,” says Duke physicist Seog Oh, who is involved in Fermilab research, “but it has been always kind enough to grant us access to its inner workings.”

Ideas

BRAIN SCIENCE

The Myth of the Multitasking Gamer

So you're a "Call of Duty" vet. You've spent hours simultaneously scanning maps, obliterating bad guys, and chatting with fellow gamers. Nothing gets by you. Surely you can navigate the perils of talking on a cell phone while driving.

According to a study at Duke's Visual Cognition Laboratory, not so much.

In the study, Stephen Mitroff, an associate professor of psychology and neuroscience and member of the Duke Institute for Brain Sciences, measured the multitasking ability of sixty undergraduates, about half of whom said they played shooter-style video games regularly. The students completed three visually oriented tasks—a video driving game, a multiple-object racking test, and a pencil-and-paper puzzle—and then repeated the tasks while answering Trivial Pursuit questions over a speakerphone, meant to simulate the distraction of a cell-phone conversation.

"It doesn't matter how much you've trained your brain; we just aren't set up to do this."

Both gamers and non-gamers fared worse on all three tests when answering questions. Gamers' best performances came in the video driving game. While non-gamers were on average ten seconds slower in completing the game's race course while talking, gamers lost only about two seconds.

Although the performance loss may seem modest, Mitroff says it shows why for most people multitasking isn't a good idea. "It doesn't matter how much you've trained your brain; we just aren't set up to do this," he says.



Attention deficit: Players at an international gaming convention may not be as good at handling multiple tasks as they think.

BIOLOGY

Polly Want a Genome

When Duke neurobiologist Erich Jarvis started trying to decode the genes believed to control a parrot's ability to imitate its owner, he quickly ran into a problem. Typically, scientists assemble genomes in a process like building a jigsaw puzzle, using sequencing machines to crank out small segments of DNA code and then figuring out how to piece them together into a coherent sequence. But the regions that interested Jarvis—involving complex genes regulating brain circuitry—proved too complicated to stitch together from fragments.

To sort it all out, Jarvis and a team of collaborators combined two sequencing technologies—one that reads longer segments of code but is prone to mistakes, and one that produces shorter, more reliable sequences. With the longer read as their rough draft, the team used shorter segments to proof the code and correct errors. They tested the technique on known genetic sequences in corn and bacteria to confirm its reliability.

The hybrid approach helped Jarvis produce the first detailed map of the genes that make parrots parrot—data that could also explain how similar speech-development genes in humans function, he notes. And it may well aid biologists in trying to sort out other knotty chapters in the genetic storybook, like the complex genes involved in cancer.



BIGQUESTION

Are political candidates too sensitive to polls?

It's a cliché of modern politics that a candidate for president won't do anything—even choose a necktie—without first consulting poll data. True, both the Obama and Romney campaigns employ in-house pollsters to measure the subtlest aspects of message strategy. But do the results of those polls have undue influence on their political beliefs? Sunshine Hillygus, an associate professor of political science and an expert on polling, offers her insights:

Candidates don't change their views in response to a poll. Politicians conduct polls not to figure out their views on the issues but to figure out if and how they should talk about their views to particular groups in the electorate. They're trying to learn which of their views resonate with different groups of voters so they can develop a strategy for targeting those groups for mobilization and persuasion.

On the one hand, some people might find it reassuring that politicians don't pander to the polls. We are quick to criticize those politicians who change their minds—there is perhaps no worse insult than to be labeled a flip-flopper or waffler. In this campaign, Obama's "evolution" on gay marriage and Romney's shifting position on health-care reform have been fodder for attack. We clearly want politicians who are principled and don't follow the whims of public opinion.

Yet there is a tension in the democratic process because our system of government only works if elected officials are responsive to the public. We should value elected officials who listen to and act on the views of their constituents, especially in light of congressional reelection rates that exceed 90 percent. What Washington needs right now are pragmatic politicians who understand the wants and needs of their constituents and are willing to compromise and negotiate.



How safe is safety? Heather Stapleton's lab has found flame-retardant chemicals in a wide array of baby products.

ENVIRONMENTAL CHEMISTRY

Don't Pardon the Dust

Stapleton brings national scrutiny of flame retardants in household products.

On the long list of things parents worry about harming their kids, a little dust in the nursery seems pretty innocuous. But for Heather Stapleton, it's a clue to a subtler threat—one that, thanks in part to her research, is getting new attention.

Stapleton, an associate professor of environmental chemistry in the Nicholas School of the Environment, has spent the past six years analyzing household dust samples for the presence of polybrominated diphenyl ethers (PBDEs), a class of chemicals widely used to reduce the flammability of household products. Accumulation of PBDEs in the environment has been linked to infertility and thyroid problems, as well as impaired motor and brain development in early childhood. Stapleton's research indicates the chemicals (and other flame retardants) are alarmingly ubiquitous, showing up in an array of electronics, furniture, and clothing. According to Stapleton, up to 80 percent of baby products sold in the U.S.—including car seats, crib mattresses, sleep positioners, and nursing pillows—contain PBDEs.

"To date I have not found one dust sample that does not contain PBDEs," says Stapleton. "Every home we have tested contains PBDEs, and the levels in indoor dust can vary by a factor of a million."

Although industry has vowed to phase out PBDEs by 2013, Stapleton—herself a mother of two young children—is concerned about the potential health effects of flame-retardant chemicals that may replace them. In July, she appeared before the U.S. Senate Committee on the Environment and Public Works to argue for more assertive regulation—including requiring manufacturers to label flame-retardant chemicals applied to products—to reduce children's exposure.

"As both a scientist and a mother, it is important to me that I reduce my family's exposure to these chemicals," she told the committee.



© Alberto Ruggeri/illustration: Works Corps

Observer

Divine Inspiration

On a ministry fellowship in rural North Carolina, Jason Villegas sees God in dancing—and Popsicles. |

By Bridget Booher

Aulander, North Carolina, is a one-traffic-light town in rural Bertie County, located in the state's northeast corner. Most of the storefronts along its main street are empty. There are no movie theaters or grocery stores; residents drive to nearby Ahoskie to catch the latest Spider-Man movie or pick up supplies at Walmart.

It takes all of five minutes to drive through Aulander, and there's really no reason to stop unless you need to refuel at the town's only gas station. The formerly self-sufficient farming town now struggles with the ills that plague countless other communities in decline: a dwindling economic base, unemployment, illiteracy, drug addiction, and crime.

On a muggy Sunday morning in mid-July, Jason Villegas stands in front of the congregation of All God's Children United Methodist Church, a block from Aulander's main intersection of Highway 11 and Commerce Street. A royal blue stole is draped over his navy blazer, and his sturdy brown cowboy boots peek out from under his khakis. Villegas is a second-year master's student at the Duke Divinity School, and he's spending his summer in Aulander as a Rural Ministry Fellow. Although he has already completed the two field education placements required for the M.Div. degree, he's opted for a third placement as part of his commitment to serving rural congregations.

The theme of today's service is dance, with music and readings selected around the idea of joyful movement. The first hymn, "Lord of the Dance," has congregants swaying from side to side while singing "Dance, then, wherever you may be; I am the Lord of the dance, said he." A four-piece combo keeps a lively pace while children sit in their parents' laps or switch pews to be closer to a friend.

Villegas opens his Bible and reads from the second book of Samuel, chapter six, where David brings the ark of God to

Jerusalem. Overcome with joy, David "dances before the Lord with all of his might." Putting the Bible aside, Villegas launches into a sermon that he has titled "When the Lord Comes Into Sight... Dance With All Your Might."

"When does God come into our sight?" he asks the several dozen Aulander residents in the congregation. "God comes into our sight any time we are around other people. If I am the Energizer bunny, the Lord is my battery—he keeps me going and going and going." Murmurs of "yes" and "amen" and "that's right" from the congregants punctuate his talk, which he delivers without notes. He's clearly in his element, smiling and making eye contact, his voice rising and falling as he nimbly holds the congregation rapt.

"Dancing is any kind of

After Villegas concludes his sermon, the congregation launches into a spirited rendition of "When the Spirit of the Lord." The Rev. Dr. Laura Early, known to the community as Miss Laura, leads the congregation in a blessing of friendship. She then invites a young man near the back of the church to join Villegas at the front of the sanctuary for the closing number. The young man had gone off to college, dropped out, and is back in Aulander. He looks uncertain and nervous at first, but as soon as the first few chords of "The Cha Cha Slide" begin, he breaks into a smile.

Soon, everyone in the church is follow-

"I'm always amazed by the joy I find here. You can tell God really wants to do something with the people here."



Dancing before God: Villegas leads the congregation in a spirited interpretation of "The Cha Cha Slide."

worship we do with our whole body and with all of our might," he continues. "Dancing may be mowing someone's yard, or bringing them food, or just listening. When we are dancing, we are close to God; we can hear his heart. Be kind and loving in all you do, so that no matter where you are or what you are doing, you are dancing before God."

ing along to the interactive lyrics, clapping hands, stomping feet, sliding from side to side. When the song calls for listeners to get low, Villegas, his beaming face moist with perspiration, bends his knees deep enough to win a limbo contest.

Villegas' work with All God's Children is part of a legacy that reaches back to James B. Duke. "My old daddy [Washington Duke] always said that if he amounted to anything in life it was due to the Methodist circuit riders who frequently visited his home and whose preaching and counsel brought out the best in him," Duke

told associates. "If I amount to anything in this world, I owe it to my daddy and the Methodist Church."

In 1915, J.B. Duke and his brother, Ben, began making contributions to the state's Methodist churches. With the establishment of The Duke Endowment (TDE) in 1924, Duke formalized his commitment, stipulating that a certain portion of the en-



Opening the door to joy: During his sermon, Villegas urges parishioners to worship “with our whole body and with all of our might.”

Megan Morr

dowment be directed to building and supporting rural North Carolina Methodist churches.

Villegas’ field placement with All God’s Children is funded through TDE’s Thriving Rural Communities initiative. Roughly two-thirds of North Carolina’s United Methodist churches are considered rural, meaning they serve populations of fewer than 1,500 people within a one-mile radius. The five-year, \$3.8 million endeavor helps places like Aulander attract and keep United Methodist clergy. Without dedicated and committed ministers such as Early—and aspiring ministers such as Villegas—rural congregations are unlikely to sustain themselves. If that happens, the church’s community outreach services, from literacy and job training to child care, also will disappear, threatening the social, economic, and spiritual vitality of the entire community.

Divinity school field placements aren’t limited to rural congregations, domestic sites, or Methodist churches. Villegas’ fellow students are serving the homeless in Houston, retirement communities in the

Triangle, and orphans in Kenya. But Villegas, who has conducted mission trips to Haiti and South Africa, is convinced that rural ministry is his calling. He first met Early during a church youth group the summer between high school and his freshman year at Chowan University, and began attending All God’s Children while in college.

“I’m always amazed by the joy I find here,” he says after the service. “You can tell God really wants to do something with the people here. The community is unified around the least of these, as Jesus would say. By the least I mean those who are the poorest, or who have mental handicaps, or problems with addiction. Whenever you see a group of people who are unified for the purpose of helping someone else, it takes your ego out of it. It brings a degree of peace and opens the door for God’s joy to come in.”

Assisting with Sunday services is only a small part of what Villegas does during his field placement. He helps with every facet of the church’s operation, from administrative tasks to community outreach. Many of

the townspeople he comes into contact with don’t attend church at all. There are the high-school dropouts who find community through pickup basketball games at the Place of Possibilities, the church’s 12,000-square-foot multipurpose facility. And there are those who have been out of work for months and rely on the church to help feed and clothe them and their families.

After the last of the Sunday worshipers leaves the nave on this summer Sunday, Early and Villegas quickly review the coming week’s activities. In addition to regularly scheduled programs and meetings, Early will meet with Villegas and his fiancée, Elizabeth Miller, for the couple’s second premarital counseling session before their August 11 wedding in Duke Chapel.

Villegas heads out of All God’s Children toward the Lighthouse, the small parsonage located off of the church’s carport. A pack of neighborhood children shows up right on schedule. They know that once Sunday services conclude and all the people have gone home, they can come to Villegas for free Popsicles, which he keeps in steady supply for anyone who asks. ■

Go Forward, Boldly

Duke leaders credit success in philanthropy for advancing some of the university's most innovative ideas. And that's why they say the new Duke Forward campaign isn't just about maintaining Duke's progress. It's about supporting a university that does best when it thinks big.

By Robert J. Bliwise

The technological marvel of a Mars landing has renewed a fascination with things astronomical. So it's fitting that Duke's president, Richard H. Brodhead, sometimes reaches for astronomical examples in describing Duke's new fundraising campaign. "To the extent that Duke has risen and risen and risen," he says, "the delta between our inertial orbit and our actual ascent has always been exactly measured by the amount of philanthropy that came to this university."

This fall, Duke kicked off its \$3.25 billion Duke Forward campaign, which runs through June 30, 2017, and involves every school and unit. "We're not trying to raise money for everything," says Brodhead. "It involves making some guesses about the future, assessing Duke's special strengths, and giving ourselves the means to advance toward those goals. We're trying to identify things that will move Duke forward and move students forward—and we know they come here wanting to be engaged in a hundred things."

Brodhead talks about the campaign as positioning Duke to play a leading role in creating the model twenty-first-century university. "The university of the future will be defined as much by collaboration as it is by individual accomplishment, and as much by the opportunity to engage with problems as it is by the accumulation of knowledge." Partnerships across areas of expertise, between researchers and practitioners, and among students and faculty members of diverse

perspectives, he adds, will be seen as "the norm rather than the exception."

Peter Lange, the provost, spearheaded an academic planning effort including deans, faculty leaders, and other administrators that identified campaign priorities. Some are familiar: financial aid, faculty support, the medical center, athletics, annual giving. But he calls the campaign—targeting as it does such interdisciplinary initiatives as innovation and entrepreneurship, the arts, energy, global health, and the environment—"strategically based and thematically based." The themes reflect "the highest needs and priorities we have, and also the most exciting and promising work we can do," he says. "They have become integrated into the fabric of the university. They are part of Duke's identity."

That identity hinges on crossing over traditional departmental, disciplinary, or even school lines. And the campaign is designed to build on that nimbleness, says Lange. "We're not inter-

ested in encrusting the same institutional structures. We are interested in building a distinctive type of twenty-first-century university, with education rooted in a combination of the classroom and engagement beyond the classroom."

In Brodhead's view, the campaign emphasizes the value placed at Duke on innovation, collaboration, and connecting theory and practice—broad cultural markers that he sees as historically resonant and "pretty much visible in everything you run into on campus." He says you can look at the creation, some four decades ago, of a biomedical engineering department that applies the approaches of traditionally disparate disciplines. Or, you can look at the creation, just a few years ago, of a Winter Forum, a program that encourages students to explore global issues through a combination of readings, presentations, and simulations.

"The world is going to want students who have the flexibility to move across domains of knowledge, to pull those strands together in solving problems," Brodhead says.

Duke's most recent comprehensive campaign was the Campaign for Duke. It ran from 1996 to 2003 and raised a total of \$2,361,205,387—smashing through the original goal of \$1.5 billion.

Robert Shepard, vice president for alumni affairs and development, came to Duke on the cusp of that campaign, in 1995, as executive director of development. The 1990s were a time of unbridled economic optimism; now, the economic atmosphere is more complicated. "One reason for the duration of these campaigns—typically two years in a quiet phase, five years in a public phase—is that you want to allow yourself time to get over bumps," says Shepard. "People are giving again. But there's still a lot of uncertainty out there, and a couple of universities that started campaigns before the plunge, when everything still looked great, haven't met their goals. That has to be reflected in our planning and modeling. But while we have to be prudent and thoughtful, we can't stop and wait for the perfect moment. There isn't a perfect moment."

Brodhead says planning for the new campaign began in the midst of the economic downturn.

DUKE FORWARD

EXPERIENTIAL LEARNING

Boundaries Not Included
Enriching the Duke Experience

Blazing New Paths
Amplifying Duke's Power for the World

Fueling Unimaginable Ideas
Sustaining Duke's Momentum

ADVANCE FUNDING AND EDUCATION

Experiential learning, innovation and entrepreneurship, the residential experience, the arts, Duke athletics

Global health, medical discovery and patient care, energy, the environment, interdisciplinary research, Durham and the region

Financial aid, faculty enrichment, Duke Annual Fund

One option discussed was embarking on a relatively modest-scale effort, something that might have been in keeping with “a particularly bleak time in seeking financial support,” as Brodhead describes it. “But even during that time, there was a very striking thing: Everyone said to us, ‘Look, people don’t recognize Duke unless it’s linked with aspiration. Duke without aspirations is not Duke.’”

Many people affiliated with Duke may be tied to a particular program, degree, or experience, Shepard says. “There’s something that ties them to a larger Duke. And what we see is that major donors over time give to multiple areas of the university: They may start, say, with a niche interest, like a professional school or athletics, but the second gift is in a different area, and the third gift is in a still different area. Part of their giving may relate to where they were at Duke. Part of it relates to where Duke is now and where they see the possibility of making a difference.”

In recent years, a familiar set of schools has launched or completed campaigns of more than \$3 billion: Cornell, Stanford, Johns Hopkins, Penn, Yale, UVA, and Southern Cal, among others.

“Among our peer group, we want to be competitive,” says Shepard. “But there’s not a lot of pressure to go out and do better than any particular institution. People recognize that there are differences between institutions and the kinds of campaigns that are drawn up.” Whatever the differences between institutions, there’s a long history of the comprehensive campaign, and the basic model—using the quiet phase to test donor response and refine an overall dollar goal, recruiting volunteers, communicating in ways that range from large events to individual meetings (and now to web-sites)—is largely unchanged, he says.

Brodhead says that “the entire history of this university is nothing but a history of partnership between educators of vision and philanthropists who want to invest their money in realizing dreams of education.” James B. Duke “couldn’t have created a university,” Brodhead adds. “That wasn’t his industry. You needed an educator to visualize it. But President Few couldn’t have created it either, because he lacked the means. It was this coming together of philanthropy and vision that turned Trinity College into a comprehensive research university and then, over the years, into a world-famous one.”

Duke is a place that thinks big. Even in the time between the last campaign and this one, philanthropy—ranging from small annual-fund gifts to multi-million-dollar donations from individuals and foundations—has helped turn some ambitious ideas into reality. **Ten examples:**

Make Visual Culture Central

The Nasher Museum of Art opened just six years ago—a spark to the arts at Duke that began with a \$7.5 million gift from Raymond D. Nasher ’43, with the later addition of \$2.5 million from the Nasher Foundation. Duke’s first-ever freestanding museum, it replaced cramped space in an academic building that was hardly hospitable to art. It’s moved quickly to organize its own contemporary-art exhibitions; and

it’s become a force for driving conversations around art.

In one early exhibition, the museum presented the work of three emerging artists who were exhibiting together for the first time: Mark Bradford (Los Angeles), William Cordova (Lima, Miami, New York), and Robin Rhode (Cape Town, Johannesburg, Berlin). For each of the exhibited artists, city streets act as fluid, living sources of inspiration—inspiration that has taken the form of painting, works on paper, sculpture, photography, video, installation, and other mixed media.

“I really enjoy working with artists who are not necessarily [yet] seen as the stars of the art world,” said Trevor Schoonmaker, the museum’s curator of contemporary art, at the time. “Ultimately the goal is to make contemporary art relevant to more people’s lives while at the same time working with leading-edge artists and concepts.”

The museum found itself on the aesthetic leading edge with another exhibition it originated, “Barkley L. Hendricks: Birth of the Cool”—the first career retrospective of the renowned American artist, best known for his stunning, life-sized portraits of people of color from urban centers. “Birth of the Cool” traveled to the Studio Museum in Harlem, the Santa Monica Museum of Art, the Pennsylvania Academy of the Fine Arts, and the Houston Contemporary Arts Museum.

For “The Record: Contemporary Art and Vinyl,” the museum built an exhibition around artworks either made from old records or inspired by records, sleeves, turntables, or a more general “vinyl culture.” Reviewing the exhibition at Boston’s Institute of Contemporary

Art (it also traveled to Miami and Seattle), one critic called it “fascinating subject matter.”

The Nasher inspires visual literacy in other ways: In the past academic year, the museum had more than 80,000 student visits. It drew classes in areas ranging from art history to African and African-American studies, and from public policy to cultural anthropology. And its community-education programs served more than 32,000 K-12 students.



Megan Warr

Embracing art: Part gallery, part classroom, the Nasher Museum of Art hosted more than 80,000 student visits last year.



One stop: The state-of-the-art Duke Cancer Center provides patients with a streamlined approach to cancer care.

Promote State-of-the-Art Health Care

The amenities tell part of the story of the new Duke Cancer Center, which opened this past winter—for example, a patient resource center, a quiet room, a café serving healthy foods, a boutique with specialty items for cancer survivors. But in a larger sense the building points to a new, patient-centered way of delivering health care. As Kevin Sowers, president of Duke University Hospital puts it, “The new cancer center is designed from the ground up with the patient in mind.”

In the old space, family members often overflowed from crowded waiting rooms into the hallway. Research showed that patients brought an average of 3.5 friends or family members with them. So the new building was designed with ample living-room-like waiting areas. For the 120 patients who receive chemotherapy each day, the building offers cubicles for privacy, a bright communal space for chatting, and even the option of receiving treatment, on pleasant days, on a rooftop terrace.

The Duke Cancer Center now brings together almost all cancer clinical services on the main medical campus, meaning that patients no longer have to travel to far-flung locations to see multiple specialists. “It’s one-stop care delivery,” says Duke Cancer Institute executive director Michael B. Kastan. The building, he notes, also is designed to bolster clinical research. (At any given time, the Duke Cancer Institute, or DCI, is conducting around 700 clinical trials.) Many clinical protocols are multidisciplinary, with surgery, imaging, and chemotherapy components. Having those specialists together in one setting makes it easier to conduct complex trials.

“This is going to be a sea change in patients’ experience,” Kastan says. And that patient population is bound to grow from the more than 50,000 patients that DCI sees every year. Forecasts project a 15.3 percent increase in new cancer cases in North Carolina between 2010 and 2015—and a 22.4 percent increase in the greater Triangle region that is Duke’s home base.

Apply Scholarship to Policy Issues

In 2009, the Sanford School of Public Policy became Duke's tenth school—a step made possible by a fundraising effort that raised \$40 million, including gifts and pledges. Before the school was a school, it was, back in 1971, Duke's Institute of Policy Sciences and Public Affairs. It was one of the legacies of Duke President Terry Sanford. In Sanford's view, a powerful measure of any great university would be its capacity to make its research relevant to “real-world” problems.

Here's an example of strategic thinking and philanthropic targeting at work: Seven years ago, the size of the Sanford faculty (not counting adjuncts or secondary appointments) was thirty. As of this fall, the size of the faculty has more than doubled, to sixty-five. Those new faculty members have expanded Sanford's depth of expertise in such areas as environmental and energy policy, global governance and development policy, communications policy, child policy, social policy, and global health and population.



Solving real-world problems: Public policy professor Bruce Jentleson teaches a course at the Sanford School.

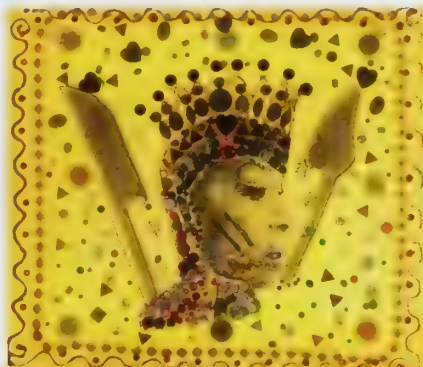
Enlarge the Focus of the Humanities

You won't find spaces overflowing with pipettes, beakers, or test tubes. But in Duke's new humanities labs, you will find faculty members, graduate students, undergraduates, and visiting scholars engaged in an unusual experiment that's built on collaborative research.

The labs bring together faculty members and students who share discipline-crossing interests rooted in the humanities. Over a period of one to three years, they work on projects related to a common theme. Humanities labs are one component of the Humanities Writ Large initiative at Duke, supported by a \$6 million grant from the Andrew

W. Mellon Foundation. The inaugural lab, in the 2010-11 academic year, was the Haiti Lab; in applying scholarly insights and in-the-field data collection to Haiti's disaster recovery, it has embraced Haitian culture, history, and language.

One of the newest humanities labs, the BorderWork(s) Lab, explores the acts of division and demarcation—cartographic and representational, political and economic, social and cultural—that parceled up the inhabited world into bounded communities. That theme points to such issues as state, imperial, and corporate power; environmental rights and engagement with the natural world; and the mobility or immobility of communities.



Crossing borders:
Artwork produced
through Haiti Lab.



Education in action: Engineering student Lauren Shwisberg '12 waters newly-planted indigenous species as part of a DukeEngage-funded wetland restoration project in Beaufort, N.C.

Conceive a Signature Civic-Education Experience

Here are some DukeEngage voices from the field:

From Cambodia: "My official job title at the Housing Rights Task Force is community organizing intern. Almost every day, I'm out in the community. We conduct demographic surveys and dis-

cuss with community leaders the threat of eviction the community faces."

From Northern Ireland: "We are partnering with Belfast-based NGOs that focus on human rights in the context of 'The Troubles,' an ethno-political conflict between the Protestant and Catholic populations. The groups with which we work are fostering human-rights culture, working to lessen sectarian division, implementing stronger human-rights reporting and protections, and working at the grassroots level to address how the violent past can be acknowledged and used as a way to construct a more peaceful future."

And from Durham: "Last week I made the fourth- to eighth-grade students create a human

timeline. I handed them a picture backed by tan construction paper. The picture illustrated a specific event or an era in our nation's history."

These are all student blog postings from this past summer's DukeEngage—just three among the more than 450 Duke students who participated in DukeEngage group or individual programs in more than seventy nations.

DukeEngage was launched in 2007 through the establishment of a \$30 million endowment from The Duke Endowment and the Bill & Melinda Gates Foundation. It funds undergraduates in pursuing an immersive (minimum of eight weeks) service experience by meeting a community need locally, domestically, or internationally.

Those student-immersion experiences have entailed environmental advocacy, community outreach, global health, education, and social justice. DukeEngage students have launched mentoring and school-enrichment programs, created community-support initiatives, designed health-education and outreach programs, improved a community's health-information infrastructure, produced environmental-education documentaries, and developed microfinance opportunities for disadvantaged women and families.

interdisciplinarity” has become a Duke marker. The term can seem hard to grasp, but it takes on vivid meaning when you consider, for example, what goes into understanding the brain.

What keeps the attention of a radiologist who sees just seventy suspicious lesions in 1,000 mammograms, or the attention of a baggage screener who hasn't found a handgun in more than a year? Can performing a physical activity while using very specialized eyewear—glasses that simulate a strobe-like experience—boost visual memory abilities? Is it possible to locate a region of the brain that carries information specific to decisions during social interactions? Can we chart the molecular mechanism through which depression can cause “accelerated aging”?

Those are the sorts of questions propelling the research of the Duke Institute for Brain Sciences (DIBS), created in 2007. DIBS brings together the brainpower of such areas as the biomedical sciences, social sciences, physical sciences, humanities, law, business, public policy, mathematics, computer science, and engineering.

Since its inception, DIBS has received \$3.2 million in philanthropic support for one of its signature initiatives, its Incubator Awards Program. The

program provides seed funding for brain-science research that is interdisciplinary, collaborative, exceptionally innovative, and broadly significant. More than twenty research projects have resulted, with interests including the genetic underpinnings of human-brain development, environmental stressors and their relationship to mental health, magnetic fields and their effect on the brain, the neurobiology of hibernation, and how examining cells in the eye might point to indicators of neurological diseases.

DIBS also supports a variety of educational programs. Last year, a DIBS-organized symposium looked at “Free Will and Responsibility: Perspectives From Neuroscience, Psychology, and Philosophy.” Relying on methods ranging from brain scanning to be-

havioral observations, the assembled experts explored “what we know about our own choices from studies of other animals, brain-damaged patients, and addicts.” As the printed program put it, “This intense interdisciplinary exchange of perspectives should throw new light on some of the most pressing issues of our time”—issues related, for example, to traditional views of free will and moral responsibility, and to institutions of criminal justice and mental health.

Break Through the Disciplines



Courtesy Duke Institute for Brain Sciences

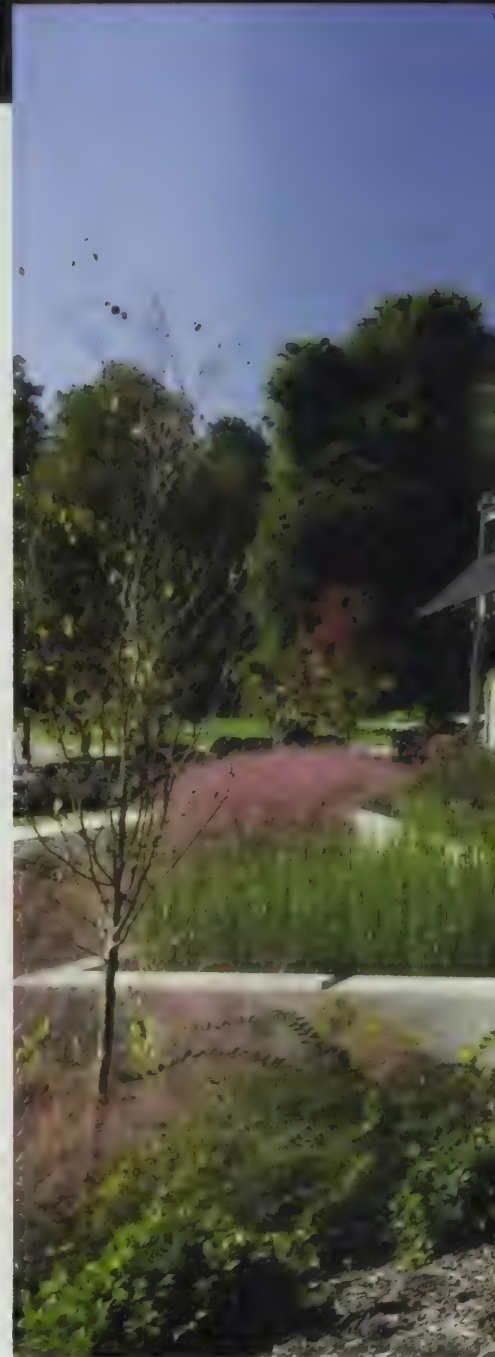
No barriers: Len White of the Duke Institute for Brain Sciences assists a student in exploring brain structures.

Combat Health Inequities

The twentieth century was a time of spectacular medical advances—and equally spectacular failures to distribute health and health care fairly across the globe. That's the impetus for the Duke Global Health Institute. Created in 2006, it involves faculty from almost every Duke school—medicine, Trinity, Sanford, Nicholas, Fuqua, Pratt, nursing—and supports education and training for undergraduate, graduate, and medical students.

DGHI's thinking about its mission is at once elevated and practical: "We recognize that global health goes far beyond addressing scourges such as HIV/AIDS and malaria, or preparing for the spread of SARS or avian flu. We challenge ourselves to examine the contexts in which these diseases exist. How do poverty, gender, environment, and globalization reinforce existing health disparities, and what can be done in these areas to improve health?"

Lots of questions, and DGHI is looking for answers in the U.S., China, Haiti, India, Kenya, Singapore, Sri Lanka, Tanzania, Thailand, Uganda, and elsewhere—a total of some 138 global-health research projects in thirty countries. DGHI researchers are training health workers in Rwanda and Tanzania, with the aim of delivering healthy babies and keeping mothers safe. They're examining ties between mental illness and HIV/AIDS in Cameroon. In places ranging from Boston to Beijing, they're studying interventions to prevent obesity—programs in which, for example, participants track their daily progress on individual diet and physical-activity goals and also attend group support sessions.



Get smart: Sustainable technology initiatives around campus include the Home Depot Smart Home.

Pass it on: A medical student teaches a community health worker how to take a patient's blood pressure.



Build a House That Teaches Better Living

How many campuses can boast of a live-in laboratory focused on sustainability and technology? Residents of Duke's Home Depot Smart Home—ten students—commit to and explore an energy-efficient lifestyle. And they use and develop smart and sustainable technology.

For those student residents, a smart day at the Smart Home can mean doing laundry with rainwater while conducting irrigation-related research in the backyard greenhouse, checking up on the growth of the green roof as well as on how much rainwater has collected in the six 400-gallon tanks in the basement, or monitoring wattage used by each room's controlled lighting. And doing all of that, maybe, to the background hum of a self-mowing lawnmower.

Among the student projects that have called the Smart Home home base: Duke Transit tracking (DUTrack), a bus-tracking app taking advantage of GPS signals on phones placed on buses as tracking devices; and Perkinsense, an online resource using heat-sensitive infrared cameras that allow the Duke community to find out if a study room is open in Perkins or Bostock libraries.

The 6,000-square-foot split-level home is operated by Duke's Pratt School of Engineering. Its energy-attuned features include hot water generated from a solar-panel system on the roof, a harvesting system that recycles rainwater, and an energy-recovery ventilation unit to preheat or precool outside air. It's the first LEED (Leadership in Energy Environmental Design) Platinum building on Duke's campus.

Bolster Financial Aid

The ongoing economic challenges are painfully obvious—certainly to prospective and current Duke students and their parents. In recent years, the university reaffirmed its commitment to the principles of need-blind undergraduate admissions, and pledged to continue to meet 100 percent of the demonstrated financial need of all admitted U.S. undergraduates. Beginning in 2008-09, Duke enhanced its aid packages, a gesture that carries a lot of symbolic and tangible significance: It entails increasing grants and decreasing loan requirements for need-based aid recipients.

Enhanced aid packages are one outgrowth of Duke's four-year Financial Aid Initiative, which began in 2005 and raised \$308.5 million in new endowment for financial aid. The Duke Endowment contributed \$75 million, at the time the largest gift in the Endowment's history. More recently, trustee Bruce Karsh '77 and his wife, Martha, have provided \$50 million for undergraduate financial aid.

In 2011-12, the university spent \$119.8 million on undergraduate financial aid (including need-based aid, merit scholarships, and athletic scholarships). Undergraduate need-based aid alone represented a \$92.8 million expenditure—up from \$48.8 million just five years earlier.



Duke's promise: The university meets 100 percent of the demonstrated financial need of all admitted U.S. undergraduates.



Megan Meyer

Redefine Academic and Social Space

It's quite possibly the most popular place on campus. More than 3 million people have stepped through its doors this past year. It rivals dorm rooms and K-Ville for how many students sleep there.

And it hosted more than 3,000 for its annual campus-wide party. So if "the library" still conjures images of a dark, musty place with awkwardly spaced computer kiosks, a visit to campus is well overdue.

No one could accuse the Perkins Renovation Committee, which first met in 1999, of thinking small. Its mission was to imagine what a twenty-first-century library should be. Terms like "awe-inspiring" and "contemplative" were tossed around, and the group of faculty members, librarians, and students came to the bold conclusion that Perkins alone could simply not meet the needs of the future. But while the committee set the wheels in motion for the construction of Bostock Library and von der Heyden Pavilion during the last campaign, there was no way it could have predicted just how far the road would go.

Take the Link, for instance. Duke's prized hub of technologically savvy classroom space "wasn't even a glimmer in our eye," said Deb-



A learning continuum: Deborah Reisinger teaches a French course in the Link, a view of Bostock and Perkins Libraries, and the interior of the von der Heyden Pavilion, clockwise from left.

orah Jakubs, vice provost for library affairs, until the renovations of the first floor of Perkins were under way—well after the completion of Bostock and von der Heyden. Bob Thompson, former dean of Trinity College, was growing short on classrooms and had started to take note of all the informal learning that the new spaces in Bostock provided. In came the Link and a sizable Office of Information Technology help desk, uniting academic, technological, and research efforts under one roof. “Several colleagues were aghast that I’d give away space,” says Jakubs, “but I thought it was for the best—as part of the learning continuum. It’s all one big thing.”

As students have increasingly used the library for group study, the library responded with its hallmark “library party,” themed each year around one of the university’s special collections. But other circumstances have allowed Perkins to test its suppleness. The increasing focus on interdisciplinary work

could create a host of bureaucratic difficulties for a more rigid library system—say, for a philosophy major researching some of Descartes’ more mathematically minded writings. “You wouldn’t know which library to put a book in,” Jakubs explains. But Perkins and Bostock have been integrating the disparate science libraries over the past few years, beginning with the chemistry library; biological and environmental sciences and engineering will soon follow.

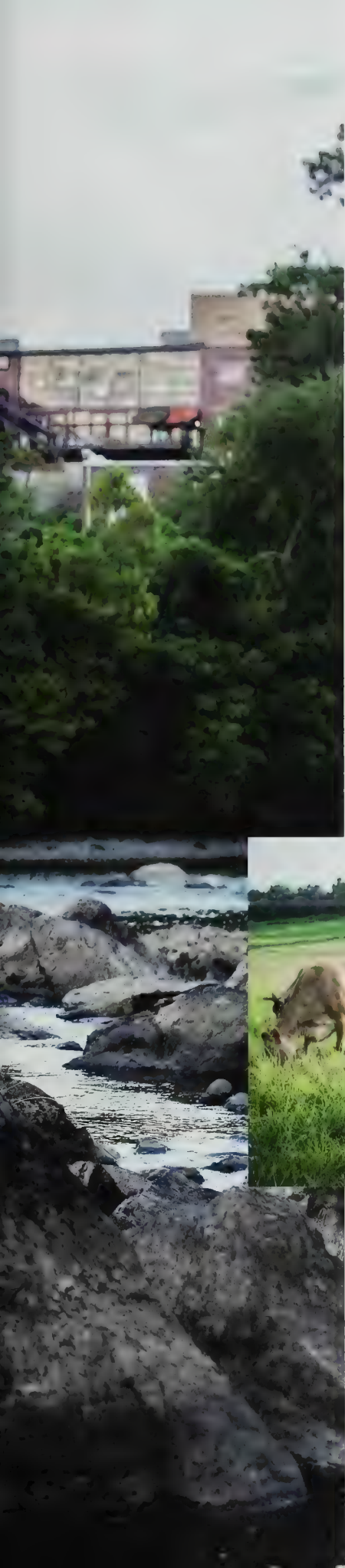
Librarians need to master new technologies and be able to explain new ways of interpreting data, Jakubs says. “No unit on campus has changed, and is continuing to change, as much as the library.” A change-promoting gift of \$13.6 million from trustee David M. Rubenstein ’70—the largest-ever donation to the libraries—is supporting the David M. Rubenstein Rare Book & Manuscript Library; that area is scheduled to be renovated in the final phase of the so-called Perkins Project. ■



Rivertown REVIVAL

On the banks of the Haw River,
a family of Duke alumni rebuilds Saxapahaw,
bringing a mill town with a storied past into the present.

BY FIONA MORGAN | PHOTOGRAPHY BY LISSA GOTWALS



When Mac Jordan stepped onto Duke's campus in 1979, he was one of the few freshmen to come with red dirt flowing through his veins. Growing up in Saxapahaw, a mill village on the Haw River in North Carolina's Alamance County, he and his siblings spent their days climbing trees in the shady woods and catching salamanders by the creeks that feed the Haw. "The river, the forests, the fields, the farms, the creeks, that's where I was," recalls Jordan '83. "We were always running around in the pastures

worked at the mill or was related to someone who did. Jordan had cleaned equipment and swept floors there as a teenager. Life was church, school, the mill, and the rolling, wooded hills. "I knew there was a world outside of a tiny rural town, but until I got to Duke, it was a pretty small world," says Jordan, the third generation of his family to attend Duke. (A ministry library in the divinity school is named for his great-grandfather, Methodist preacher Henry Harrison Jordan.) One time, when he brought a few classmates home for a visit, his dad asked them to help round up the cattle in the pasture after supper.

But by 1979, that simple life was changing. Although mill business was still thriving, the village was not. Mill workers, who once rented mill-owned houses clustered around the river, began moving farther from town. Their children left for jobs elsewhere. And like so many rivers in American industrial towns, the Haw had grown so polluted that kids were warned off swimming or eating fish caught there. Mac's father, John Jordan '58, understood that if Saxapahaw were going to survive, it needed to be reinvented.

As a young man, Mac felt a need to determine what role he would play in that effort. Although he loved painting and drawing, he chose to major in public policy, which offered classes that dealt with community revitalization, economic development, business, politics, and regulation.

"Dad was very good at training me not to waste my time, that everything you do should have a purpose," says Mac.

At Duke, Mac Jordan's became saving Saxapahaw.

"The beauty of the community, both naturally and socially," he says, "I wanted it for my kids."



Natural appeal: A resident fly-fishes on the Haw River near the Saxapahaw mill. Above, cows graze at Cozi Farm, overlooking the town.

or the streams, making trails and clubhouses and creating our own play land."

Just twenty-nine miles from Duke's campus, Saxapahaw (pronounced SAX-uh-puh-haw) felt like a world away. It was a town of 2,000 people, centered on a textile mill that Jordan's family had owned for more than fifty years. Just about everyone

The Saxapahaw Cotton Mill was constructed in the 1840s and made cloth for the Confederate Army. In 1924, its owners saw their fortunes fall, and the mill went into receivership until Charles V. Sellers bought it in 1927. Sellers called upon his nephew, B. Everett Jordan '18, to help him reopen the mill and manage it.

Everett and his wife, Katherine, took it upon themselves to build up the village community. To prevent young boys from throwing rocks through the mill windows, he enlisted a friend to start a Boy Scout troop. Katherine planted redbud and dogwood trees that still stand along the road in front of the mill. The couple built a community center and gave land for the establishment of a school.

Then-seven-year-old Wilma Phillips arrived in 1939, when her parents and grandmother took jobs in the mill. "[The Jordans] even moved us here in their company truck from Tennessee," she says. Her family moved into a mill-owned house on the hill, the first of three they would live in. At eighteen, she went to work in the mill. She spent most of her career testing yarn on a machine in a room called "the lab."

Phillips married in 1951, and she and her husband, Harold, moved two miles out into the country. "Before they built that highway out there, it was red mud," she recalls. "The old saying was, if you got that red mud 'tween your toes, you never would leave." Once the mud was paved over, however, the community began to disperse. The Phillipses' daughter and granddaughter still live down the road, just outside of Saxapahaw, but both work in Chapel Hill.

In 1958, North Carolina Gov. Luther Hodges appointed Everett Jordan to the U.S. Senate to fill the seat left by the death of W. Kerr Scott. Jordan spent the next fifteen years in Washington, turning the mill over to his eldest child, Ben '51. He came home to Saxapahaw in 1973 and died a year later, leaving the Saxapahaw mill and two other North Carolina mills to his three children.

In 1978, the year before Mac entered college, the siblings sold the mill to Dixie Yarns. "In hindsight, it was a blessing we got out of the textile industry then," says John Jordan, "because 1979 was the peak of manufacturing, in all industries, in the U.S. We were lucky, not smart."

But John was not ready to leave Saxapahaw. "I was born and raised here, and my four children were born and raised here.

Saxapahaw was, and is, a good place to raise a family.... It's something you want to preserve." So John decided to go into the real-estate business. Sensing an opportunity for Saxapahaw to become a bedroom community for Chapel Hill, fifteen miles away along highway N.C. 54, he bought the sixty-six mill houses, thirty-three on each side of the river, as part of the sale to Dixie Yarns. He sold the houses across the river from the mill for between \$10,000 and \$20,000, some of them to longtime mill workers who had never imagined owning a home. With that revenue, he financed renovations on the other thirty-three houses, which he continues to rent.

Jordan approached the renovations with conservation in mind. Cottages were equipped with wood stoves, energy-efficient appliances, solar water heating, and gardens in the yard. John and his wife,

"I like to joke we're a bunch of rednecks and hippies all mixed together."

Margaret, hosted backyard picnics and an annual festival to raise money for the community center.

"Now, I'm a business person," Jordan says. "I like to think I'm a Christian. It's not a conflict of interest. The greatest commandment is 'Love the Lord your God with all your heart and soul, and your neighbor as yourself.' That's important. You need to love your neighbor as yourself. Everything we do should be a win-win in life."

Mac helped with renovations on summer breaks from Duke, where he was beginning to look at his hometown from a new perspective. He had taken a photography course with Alex Harris, founder of Duke's Center for Documentary Studies, who assigned students to study and photograph a community. Naturally, Mac chose Saxapahaw, focusing on a millworker family he knew. The assignment showed him the human scale of the social and economic policies he was studying. "We tend to think we know it all before we really interact with who it is we're trying to serve or help. That's where Alex's class really was a paradigm shift for me, in my way of approaching life and business and architecture," he says.

After graduating, Mac moved home and got his real-estate and contractor's licenses, ready to help his father revitalize his hometown. "I just fell in love with what he was

doing," he says. "It was important as a career and business opportunity, but also from a policy and philosophical point of view."

But while the Jordans' real-estate venture was taking off, the future of the mill seemed in doubt. With increased automation and growing competition from international manufacturers, textile mills across the country shed jobs or closed altogether. In Greensboro, once the hub of a thriving apparel industry, the nearly century-old Revolution Mill was shuttered in 1982. Dixie Yarns had already converted one of Saxapahaw's mill buildings, the dye house, to storage. "Time and motion is everything in manufacturing," John says, and a three-story mill building couldn't keep up with modern production techniques. It seemed only a matter of time before it, too, would become a victim of a declining industry.

The Jordans, though, were ready. Even

though the dye house remained under Dixie Yarns' control, Mac drafted a plan for renovating it for his master's thesis at North Carolina State University's School of Architecture. "We had a one-year and a five-year and a ten-year plan," Mac says. "We saw the direction that textiles was headed. We just didn't know when or how soon, but we knew this plant would probably shut down."

By the time the inevitable happened and the mill closed in 1994, the Jordans had invested too much time and money into their idea of an attractive, safe community to let it wither. "You can't have a derelict mill in the heart of it," Mac says. "It was an opportunity, a huge risk, but there really wasn't a choice. We felt that we were probably the only ones that were in a position to take it on."

Banks were harder to convince. "Everybody considered us in the middle of nowhere, and we thought we were in the middle of everywhere," Mac says. John used personal resources to buy the mill properties. When a charter school signed on as a tenant, he was able to borrow a million dollars to begin renovations on part of the upper mill. Mac called his brother, Carter, who was living in Wyoming. "Dad's going to let us do it," he said. "And I could use your help." Carter flipped a coin, "and it came up heads, so he moved back," Mac laughs.



Family legacy: “Saving a community is like being an artist,” John Jordan says of his son Mac (left), who once dreamed of becoming an artist. “You want to create something, like a painting, that will last forever.”

The brothers sandblasted the interior, removed asbestos, built retaining walls, and painstakingly sanded the original maple floors. As soon as wiring was done, Mac set up a makeshift apartment in the old “lab” room to protect the site from vandals. The school opened in 1998, along with a mix of retail and commercial space in the upper mill building. Financing the lower mill’s conversion to residential apartments required Mac to tap into his public-policy background to get the structure designated as a historic landmark, qualifying the project for tax credits, which he combined with a Housing and Urban Development-backed mortgage. The process took three years and interactions with every level of

government, from state building-inspection and historic-preservation offices to the Federal Emergency Management Agency and even the Army Corps of Engineers. It also took immense patience with Mother Nature: Six months after the project began, Hurricane Fran hit, bringing a 100-year flood up the Haw River that filled the bottom floor with water.

At a local auction, John Jordan met Tom LaGarde, a former University of North Carolina basketball player who had just walked away from an unsatisfying career selling bonds in New York. LaGarde and his wife, Heather, had recently moved to a neighboring farm town with their three-year-old daughter and newborn son, seek-

ing to bring up their children in the same sort of community the Jordans wanted to preserve.

A Chapel Hill native, Heather recalled trips to Saxapahaw with her parents, learning to drive on its quiet streets when she was a teenager. “It just seemed like this far-away place that was very close,” she says. “It had these beautiful buildings, but it was dusty and starting to fade.”

Tom, who runs an architectural salvage business, shared the Jordans’ passion for historic preservation and conservation. Although they didn’t agree on everything—the Jordans are registered Republicans and church-going Methodists; the LaGardes, Democrats whose main gospel is organic food—the families had a mutual appreciation for small-town values and a simpler life. And in a way, their ability to connect across cultural differences is emblematic of the come-as-you-are openness that seems to make Saxapahaw work.

Although the Jordans were clear about their vision about Saxapahaw as a place with “amenities,” as John likes to call them, that would draw people from Chapel Hill, they hadn’t put much thought into how to get people from Chapel Hill to take notice. “I loved that they hadn’t come up with a marketing plan or any way of getting the word out about this really cool project in the middle of nowhere,” says Heather LaGarde, who had been a professional event promoter for Human Rights Watch and other nonprofit organizations. “It looked like a New York loft, right on the river in North Carolina.”

The LaGardes suggested an idea: a Saturday evening farmer’s market, with live music and artists’ stalls. It was anything but a conventional way to advertise apartments.

“I didn’t have to think about it at all,” says Mac. “We knew that we were so unconventional and so different than everything that was out there that our marketing really wasn’t just marketing, it was as much storytelling and community revitalization. We weren’t just trying to sell or rent property; we were trying to have a whole community come back to life.”

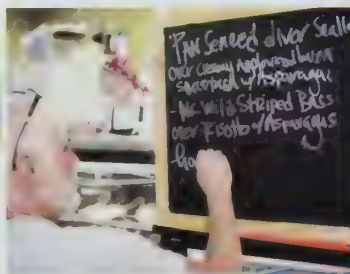
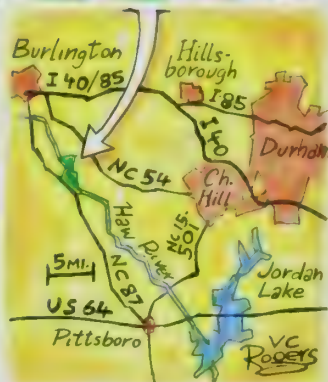
“It took some guts to do that,” Heather says, “but I think it’s so deeply in their values.”

On a Saturday evening in June, the grassy hill across the street from the lower mill fills with picnic blankets and lawn chairs while a bluegrass band plays energetically under a covered bandstand. Local farmers sell grass-fed beef, strawberries, and



SAXAPAHAW

- A. Paperhand Puppets
- B. Haw River Canoe & Kayak
- C. Saxapahaw Artists Gallery
- D. Farmers Market
- E. Amphitheater & Picnic Area
- F. The Eddy Pub (Level 3)
- G. Haw River Ballroom
- H. Saxapahaw General Store
- I. Haw River Trail
- J. River Landing Inn
- K. Benjamin Vineyards



Local amenities: From left, the Haw River Ballroom; kayakers at Haw River Kayak and Canoe; daily specials at the Saxapahaw General Store

collard greens from tents set up in the small parking lot. Kids run barefoot through the grass, playing capture the flag and chasing fireflies in the growing dusk, while their parents sip wine and tap their feet to the music. The smallest children climb on hay bales, while braver ones slide down a home-made water slide set at the top of the hill.

"Saturdays in Saxapahaw," launched in 2005, initially drew about fifty people to the weekly summer markets. As the renovations progressed, the Jordans and LaGardes hosted art events to showcase the space. Enthusiasm was building. Then a fire destroyed part of the lower mill three months before scheduled completion of the apartments, causing a six-month delay. They opened at last that December, just

weeks before the tax credit deadline. All seventy-five units were rented by the following summer.

Tonight, the crowd for the weekly market and concert is around 1,500. John Jordan is there, as he is every week, greeting neighbors, a sight Heather LaGarde loves to see. "[The Jordans] get to see a new community forming, and they're sharing their nostalgia with everybody else," she says.

Up the road, in the corner of the old dye house, the Saxapahaw General Store offers an eclectic mix that tells a story of Saxapahaw's contrasts: pork rinds and local honey, deer hunting supplies and \$10 rounds of cheese from Chapel Hill Creamery, fishing worms and organic kale. The store's grill serves scratch buttermilk biscuits, shrimp

and grits, local braised beef short ribs, or white pizza with fennel and prosciutto. A sign above the bussing tray asks patrons to scrape their plates into a compost bin so that the scraps can be fed to the chickens at Cozi Farm, up the hill. Sit and eat an omelet on the store's back patio, and you can nearly see the chicken that laid the egg.

When the convenience store space went on sale in 2008, the LaGardes recruited chefs Jeff Barney and Cameron Ratliff of Chatham Marketplace in Pittsboro and Fowler's in Durham to turn it into a destination for gourmet local food. Selling artisanal cheese out of the former company store generated some pushback from old-timers, Heather recalls, and it was an early test of how well new and old Saxapahaw could coexist. "As soon as they believed that it was about community and not gentrification, and about families having lives there and not just selling things," she says, "then a real trust was formed."

Barney and Ratliff went on to join Doug Williams and Claire Haslam to open the Eddy Pub, as well as a baking and catering company. The Eddy offers eight North Carolina beers on tap, local cheese and burgers, and bratwurst made from local, organically raised livestock. Eddy patrons can sit outside on an open-air patio, soaking up the sunshine and gazing at the Haw.

In May 2011, the biggest showcase of Mac and Carter Jordan's labor of love was finally open to the public: a three-story, 700-person-capacity live-music venue called the Haw River Ballroom. The exposed brick and metal beams are at once raw and sleek, old and modern. Cones of cotton yarn the mill once produced sit on an old wooden rack in the lobby, next to colorful handmade signs announcing the local beers on tap.

The LaGardes and their business partner, Margaret Jemison, purchased the space from the Jordans and spent two years planning the ballroom's offerings. A coffeehouse next door, Cup 22, provides a daytime gathering place and a caffeinated option during concerts. The ballroom's performance calendar features buzz-generating touring bands, mostly of the indie rock variety, but it also hosts local clog dancers, a community acoustic jam, weekly Ping-Pong, sometimes even a bouncy house for kids on rainy winter afternoons. The latest addition to the schedule is "Saxapahaw University" ("Where everyone is Grade A"), a series of free lectures, classes, and readings. The first SU event was a discussion of local ecology and natural history, and recent topics have included mill his-



Saturday night charm: In summer, the village swells with visitors who come to browse the weekly farmer's market, listen to music, or just lounge on the hillside.

tory, politics, and family history.

"We're a mixed breed out here," says Mac Jordan. "I like to joke we're a bunch of red-necks and hippies all mixed together."

Heather points out that the "hippies" are more like young, upwardly mobile professionals, and the "rednecks" she describes as "well-read, church-going, open-minded conservatives." Saxapahaw's small-town atmosphere helps soothe whatever differences exist. "I don't think you can hold onto a stereotype when you see someone day to day," Heather says.

It's safe to swim in the Haw River again, thanks in large part to the work of the Haw River Association, an activist group that has led efforts to improve water quality and restore wildlife since the 1970s. There's now a walking-and-paddle trail along the Haw that connects Alamance County to Jordan Lake (named for the late senator), making Saxapahaw a stop on the national Mountains-to-Sea Trail.

The last phase of renovation is taking place in the upper-mill building, where twenty-nine loft condos, each with a view of the river, are being constructed from original mill materials—from the wood floors to the exposed brick walls to the pressed tin ceilings. Each condo is furnished with art and furniture made in North Carolina. The 1,200- to 1,300-



square-foot lofts start at \$335,000—a far cry from the \$10,000 mill houses John Jordan sold thirty years ago.

"I'm telling you, they made it a city now over there," says Wilma Phillips, who at eighty years old still lives two miles outside of Saxapahaw. John Jordan recently gave her ladies' church group a tour of the ballroom and the lower-mill condos. She was amazed to see the old flooring she had stood on for decades reused in the lofts. She

says she enjoys seeing the patio at The Eddy full of people on Saturday nights. "You go by and it's lit up, it's so pretty. I never did dream it would be looking like this."

As the sun goes down, the fairy lights go on around the old dye house. An old metal hulk of an extractor machine lights up from inside, the words "HAW RIVER BALLROOM" punched through the side to create an illuminated sign. A similar machine stands inside next to the soundboard.

"I was so excited when Tom and Heather said they wanted to save that one," Mac says, "because when I was a teenager, my first paycheck was from the dye house. I worked in maintenance, and one of my jobs was cleaning the filters on those extractors. The very one they left in there, I used to clean the filter on."

The way the Jordans talk about Saxapahaw, there's a sense of coming full circle, of having endured the trials of time and motion and seen the next cycle begin. One of John's grandsons recently showed him a self-portrait he'd taken, sitting on a rock in the middle of the river. "To me, it was very symbolic," John says. "I see three generations of Jordans sitting on a rock in the middle of the Haw River." ■

Morgan M.P.P. '11 is a writer who lives in Durham.



PHOTOS BY DONN YOUNG

Undergrads take on faculty in an annual contest that's redefining the Duke culture. **What's the big deal about entrepreneurship?**

B

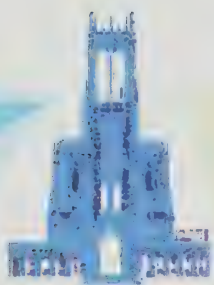
y ten minutes to seven, Fuqua's Geneen Auditorium buzzes with preparation. Organizers shoo away early comers while the tech crew repeatedly tests the video feed and microphones, consulting over headsets. Each of the 450 seats has a program on it; many also sport a Thunderstick, a hollow tube for claquers to pound on or hoot through. The crowd will be big—and noisy. Welcome to the 13th Annual Duke Start-Up Challenge Grand Finale.

At stake on this warm April evening is a \$50,000 prize and recognition as Duke's top entrepreneur. After a months-long process of elimination, 118 teams have been winnowed to three, two led by undergraduate liberal-arts majors. To earn a shot at the grand prize, they beat out thirty-four teams from the business school,

thirty from the engineering school, and sixteen led by faculty. They'll have ten minutes to pitch.

One of them is James Sawabini, a lanky senior who paces restlessly, practicing his speech in his head. In an open-necked checked shirt and sport coat—"Just managing the brand," he laughs—Sawabini has launched a start-up called Zamsolar, which would sell solar cell-phone chargers and solar-powered light fixtures in Zambia. The venture already has won a \$1,000 "track prize" for being the contest's best social-enterprise idea. Tonight he'll try to sell it to a dozen skeptical judges: successful entrepreneurs, potential investors, hard-minded business people with a soft spot for Duke.

When I saw him earlier in the week—he had changed the location of our meeting



The competitors: From left, James Sawabini, Ting-Ting Zhou, and Vijay Agarwal

three times in nine hours, finally settling on a coffee shop—Sawabini had admitted to being terrified of his presentation. “I pretty much cleared the decks this week to practice,” he said. “It’s like a lamb to the slaughter. I see the holes in our plan as well as they do. There are a million ways to say, ‘What you’re doing is crazy, and I’m not interested.’ But go to Zambia, go to Tanzania, go to Uganda. Most people have never seen these products before, and these products can change their lives. It’s not about making money. It’s about taking an inefficiency and fixing it.”

Winning the \$50,000 prize would enable Sawabini to go to Zambia after graduation and get Zamsolar on its feet. His business partner, a senior at Yale University, will not be coming down for the grand finals. If he fails tonight, they plan “to chase private investors all over the place.”

Out in the hallway, Sawabini’s competitors have been working the well-wishers and the well-wired. Vijay Agarwal, who grew up in San Francisco and has been starting companies since he was sixteen (“Nothing we ended up taking to market was successful”), strides into the auditorium and introduces his business partner, an engineer just in from California. Wearing a snappy black tie and an ultra-conservative black suit, Agarwal, too, is managing the

“There are
a million ways
to say
**‘What you’re
doing is crazy
and I’m not
interested.’**”

brand, right down to his hospital pager. A second-year resident in neurosurgery at Duke Hospital, he is touting a plastic clip designed to replace the titanium ones commonly used in brain surgery. Being plastic, the clip doesn’t interfere with MRIs or CAT scans, allowing doctors to spot post-surgical problems. “In the ICU, where I spend a significant portion of my time, I could show you how this device would help people,” he boasts.

Having grown up in the Bay area, Agarwal knew what he was looking for; he chose Duke precisely for its supportive climate for innovation. “The way the neurosurgery program here stepped up has been phenomenal. People meet me in between OR cases when they should be eating. They stay up at night going over stuff when they should be sleeping.”

Agarwal’s company, CranioVation, also found favor early on, winning last fall’s elevator-pitch competition for health-care ventures. With just a few moments

before showtime, he excuses himself to make a call.

Last to enter the room is Ting-Ting Zhou ’13, who has formed a company called Nanoly with two other women, one a Berkeley undergrad she’s known since childhood, the other a Stanford grad student. Nanoly wants to test and market a hydrogel that could revolutionize vaccine delivery, especially in the Third World, by eliminating the need for cold storage.

The Nanoly team has been busy, talking to PATH, an international nonprofit that leverages government and foundation money to address world health issues; applying for grants from the Bill & Melinda Gates Foundation; and approaching the U.S. Department of Defense for research funding. They look to the World Health Organization as a first customer and to a major big pharma player eventually to acquire them.

“This semester,” says Zhou, an officer in the Duke Association for Business Oriented Women, “has been about entering as many competitions as we can. The Dell Social Innovation Challenge, Cornell, Berkeley. Berkeley has a lot. Any pitch



Ready to launch: Sawabini, Zhou, and Agarwal all have good ideas, but it takes more than a moment of inspiration to win the Start-Up Challenge's \$50,000 grand prize.

competition, we'll just try to go."

Entrepreneurism is not something Zhou picked up from her Duke education, at least not directly. "None of my classes have been entrepreneurial at all," she says.

"Writing a business plan—you can Google that. Everything's on the Internet. Yes, there are professors who may have worked in venture capital in the past, but it's not the same as the Internet."

Where the Internet fails, another kind of network succeeds. Needing a pitch video for the competition, Zhou reached out to friends in the Program in the Arts of the Moving Image and in the Center for Documentary Studies to shoot and edit one.

"You're trying to re-create AT&T in Zambia."

That professional-looking video has already helped snag \$20,000 for Nanoly, which won the Start-Up Challenge's un-

dergraduate track and women-led track.

"One of the amazing things Duke has given me are the relationships, the people I've met. I never take meals alone, ever. My calendar is filled with lunch and dinner two weeks in advance. When people cancel, I immediately call someone else to say, 'I have an opening.'"

Though Zhou's West Coast partners are not coming tonight, Zhou will be cheered on by her parents, who have come down

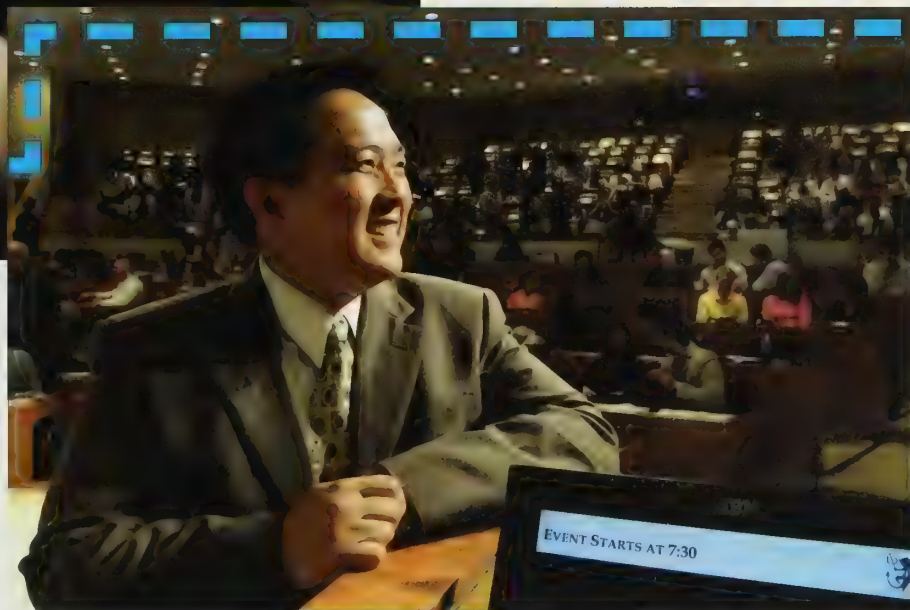
from New Jersey for the event. In the early going with Nanoly, they were encouraging, Zhou says, but cautioned her to keep her grades up. "I said, 'But I want to change the world, Mom.'"

Students like James Sawabini, Vijay Agarwal, and Ting-Ting Zhou can leave you breathless, inspired, exhausted. Whatever happens in Geneen Auditorium tonight, all have vowed to continue pursuing their peculiar passion. Although the restless intensity of their ambition may set them apart from typical students, they are emblems of



a deeper sea change at Duke (and perhaps in society at large) of which the Start-Up Challenge is only the most visible manifestation.

Let's not overstate the case: *Entrepreneurship* still gets fewer hits on Google than the Bible or Qu'ran. But from President Obama on down, the word is on everybody's lips. Entrepreneurship is sexy, maddening, and arguably critical to our country's emergence from the economic doldrums. It's capitalism working right for a change. Yet the concept is boring, fuzzy, and overused; its center is everywhere and its edge nowhere. It's a stalking horse, a shibboleth, a panacea, a paradox. If you want to save the world, start a company. If



Welcome to the club: Howie Rhee sees the Start-Up Challenge as part of an extended entrepreneurial network that can support Duke students throughout their careers.

you want to make money, create wealth. If you're worried about getting an A, forget it.

For years a half dozen of Duke's schools have sported degrees, programs, centers,

clubs, and certificates focused on entrepreneurship; there have long been courses, clinics, practicums, mentoring, incubators, and lately even shared living space, with onomastic redundancies sufficient to make your eyes glaze. There's a Center for Entrepreneurship and Research Commercialization; a Center for Entrepreneurship and Innovation; an Enterprising Leadership Initiative; a Markets and Management Certificate Program; a Program for Entrepreneurs; a Center for the Advancement of Social Entrepreneurship; and much more. Faculty members have their own demesnes, including the Duke-Coulter Translational Partnership Grant Program to get engineers and doctors inventing together, as well as the longstanding Office of Licensing and Ventures to help push brilliant ideas into the marketplace.

But while the antechambers and out-buildings of innovation and entrepreneurship were well furnished, the central room has remained vacant until very lately. Students, for example, complained about the difficulty of obtaining course credit for new ventures; alumni complained about the difficulty of finding like-minded classmates. To be an entrepreneur at Duke you had to make yourself an expert on way more than just your Big Idea. As Kimberly Jenkins '76, M.Ed. '77, Ph.D. '80, puts it, "The culture was organic, not intentional."

Jenkins, a former trustee who has worked alongside both Bill Gates and Steve Jobs, has been one of the key drivers for changing that culture. Serving from

WHO WANTS TO BE AN ENTREPRENEUR?

At Duke, there's no paved road from business idea to business venture. Students can turn to courses, clubs, contests, or alumni networks to jumpstart their entrepreneurial journey. So study up, dust off your elevator pitch, and pick a path.

You may just end up a winner!

LL.M. IN LAW & ENTREPRENEURSHIP
Joint degree program for business and law students that covers the legal aspects of new business deals

LEARN HOW TO BE AN ENTREPRENEUR

You'll gain a foundation of business skills and knowledge to succeed in the entrepreneurial world.

MARKETS & MANAGEMENT ENTREPRENEURSHIP PROGRAM

Certificate program for undergrads wanting to study business, organizations, entrepreneurship, and related issues

DUKE IN SILICON VALLEY: DOGPATCH LABS

New program sends Duke students to kick-start their start-up ideas at Dogpatch Labs, the incubator that spawned Instagram

ENTREPRENEURSHIP AT DUKE SPEAKER SERIES

Slate of guest speakers introduces students to the key concepts necessary for a future in entrepreneurship

NEED MORE TIME? TIME IS ON YOUR SIDE

Duke allows entrepreneurial-minded students to take time off school to launch businesses.

INCUBE RESIDENTIAL LIVING

Student-run club for undergrads dedicated to nurturing the entrepreneurial spirit

DUKE ENVIRONMENTAL LEADERSHIP PROGRAM (DEL)

Nicholas School program focusing on environmental entrepreneurship and innovation

ENTERPRISING LEADERSHIP INITIATIVE, HART LEADERSHIP PROGRAM

Learn the art of leadership at the Sanford School of Public Policy

COURTYS

Incubator offers office space, business development help, and mentorship for students trying to launch a business

DUKE-COULTER TRANSLATIONAL PARTNERSHIP GRANT PROGRAM

Biomedical engineering program awards seed money for ventures that seek to improve medical care in an area of critical need

CENTER FOR THE ADVANCEMENT OF SOCIAL ENTREPRENEURSHIP (CASE)

Fuqua-based research-and-education center caters to socially minded entrepreneurs

BLACKSTONE ENTREPRENEURS NETWORK

Collaborative effort among the Triangle's major universities and the private sector strives to make the Triangle a hotbed of entrepreneurial activity

You'll gain a foundation of business skills and knowledge to succeed in the entrepreneurial world.

START A BUSINESS AT DUKE

DUKE START-UP CHALLENGE

Annual contest awards \$50,000 to promising ventures

DUKE OFFICE OF LICENSING & VENTURES

Responsible for patents, technology licenses, and new venture development for Duke University and Medical Center

REMEMBER, YOU ARE NOT ALONE.

Entrepreneurship is a team game. Networks such as DukeGEN can lend a hand with resources and specialized expertise.

2010 until this July as senior adviser to the president and provost for innovation and entrepreneurship, she crafted a strategic plan and helped raise money—including a \$15 million gift from trustee David Rubenstein '70—for new programs such as Mentors on Call and Duke in Silicon Valley. Duke's vision in this area owes much to Jenkins' own.

"I have a deep passion for entrepreneurship based on the joy it has brought me," says Jenkins. "Our students are well-rounded, sociable, fun, incredibly smart, passionate, and relentless. Those are the same qualities it takes to be an entrepreneur. But entrepreneurship is harder than most people think."

Tony Brown would concur. He's a fixer, an instigator, a coach, a gadfly who founded the Enterprising Leadership Initiative within the Sanford School of Public Policy's Hart Leadership Program and who can rattle off dozens of examples of successful social and commercial enterprises led by his alumni. But he points out "there's a difference between entrepreneurship, entrepreneurship preparation, and entrepreneurship education. Most entrepreneurship happens five years out of college, ten years out of college, and to make the bet that we're going to scale entrepreneurship rather than entrepreneurship preparation—you gotta be careful of that." Asked if he plans to attend

the Start-Up Challenge finale, he waves his hand dismissively.

Yet Brown, too, has noted the sea change, and noted it with pleasure. "My work is now mainstream," he nods. "Duke is serious about this. The challenge is to be clear about our objectives."

For a growing cast of faculty and staff members, students, alumni, and parents, the objective is to weave an entrepreneurial way of thinking into the very fabric of Duke's culture. The best way to do so, they reckon, is by using entrepreneurial techniques: favor networks over hierarchies, prefer hard work to a brilliant idea, let everybody play.

The Start-Up Challenge is a perfect example. More than 300 volunteer judges winnowed the original 118 teams down to three, each of which includes members from other universities or the private sector. The finale is run by Fuqua and Pratt students, who seem lighthearted about the fact that none of their schools' sixty-four teams made the cut. Behind each business plan there's a lot of mentoring, sharing, trust—and yes, hard work.

"I want to be sure the plans and pitches that come out of Duke are at the top of the heap compared to those anywhere in the world."

But are entrepreneurs really different? Tonight's show is a decent test case. The audience starts trickling in, students bringing beer and wine, and the atmosphere becomes jovial. The Blue Devil is working the crowd, and the room takes on an almost-rowdy disposition, more like a sporting event or a concert, a scaled-down version of *American Idol*. And as with *Idol*, there's a paradox at play in the equally tantalizing possibilities that any one of the finalists may

dazzle the crowd or be eaten alive by the judges' critiques.

One of those judges is Reid Lewis '84, cofounder and president of Group Logic, a company that integrates Apple products into Windows-based server systems. Although it can easily take a couple hours to review and comment on a start-up proposal, Lewis knows hundreds of hours go into writing one. "As an undergrad there's an immense array of things that distract you from that work. We want to make sure people get the best possible feedback and that they can create not just a good 'student plan' but a good business plan," he

Good Company Former Start-Up Challenge ideas that made it—and a few that didn't

OmnipreSense

After winning the inaugural challenge in 2000, founders Vamsee Pamula Ph.D. '01 and Michael Pollack M.S. '98, Ph.D. '01 went on to launch Advanced Liquid Logic, which develops technologies for biological research.

Sundance Genetics

Chuck Eesley '02, who founded the 2002 Start-Up winner, is now a professor at Stanford and a widely cited scholar of entrepreneurship strategy. He credits the challenge for helping direct his career trajectory.

Optopo

2004 winner is now Centice Corporation, a technology company based in Morrisville, North Carolina. Todd Creech M.B.A. '03, a student on the Optopo team, is now CFO of SARCode, a start-up in Florida.

Precision Biosciences

Matthew Kane's biotech venture earned second place in 2006, but it's outlasted the competition. Kane M.B.A. '06 remains CEO of the Durham-based firm.

Oncoscope

Founded on the inventions of biomedical engineering professor Adam Wax A.M. '96, Ph.D. '97, the 2007 grand-prize winner is still doing business, and Wax remains chairman of the board.



VisibleEnergy

2008 finalist became PlotWatt, which markets energy-saving technology to consumers.



Wasabi

Shaan Puri '10, Trevor Ragan '10, and Dan Certner '10 got on a roll with their idea for fast, made-to-order sushi, which won the 2010 challenge. The roommates opened Sabi Sushi, an online restaurant in Colorado, which had a brief run before folding in late 2011.

ShelfRelief

Textbook-swapping site, a finalist in 2011, is up and running after winning; founders have pledged to give profits to aid schools for orphans in Latin America.



Sidewalk

Groupon-like concept made the final cut in 2011 and survives as Hootli, which hawks deals at nearly forty Durham-area businesses.



says. "I want to be sure the plans and pitches that come out of Duke are at the top of the heap compared to those anywhere in the world."

Lewis sees the Start-Up Challenge as fitting under the rubric of the Duke Global Entrepreneurship Network—DukeGEN—which he helped create back in 2008 as a support network for entrepreneurs. Although DukeGEN has a speakers' series, networking events from coast to coast, a website, a blog, and an extremely active LinkedIn discussion group, at bottom "it's not a place—not even a virtual place—but a set of relationships and potential relationships," Lewis says. "It's organic, it's reactive, ever-evolving, self-sustaining. It's a community whose utility and intelligence are invisible, baked in." And it's only for Dukies. Anyone with a Duke connection can join, and many quickly discover that they "can have a huge impact on other people's efforts, on their trajectory, with a little bit of time and knowledge that [they] already have."

"DukeGEN is all about providing value," agrees Howie Rhee M.B.A. '04, looking over the crowd with a proprietary air as the auditorium fills. As managing director of the Center for Entrepreneurship and Innovation and himself a founder of two start-ups, Rhee is DukeGEN's straw boss, apologist, and troubleshooter, the man behind the curtain. He makes sure that DukeGEN stays focused not on events but people—on helping people start their business, assemble the right team, get answers quickly.

"Duke is a very risk-averse culture," he notes. "I think of what I'm doing as actually creating a movement. I want to engage people such that students, alumni, faculty, and staff are part of the movement, such that this is a bigger lifelong change for them." It's this kind of attitude that has turned the thirteen-year old Start-Up Challenge into a phenomenon.

Rhee envisions a continuous Duke-centered entrepreneurial community from matriculation to death, with the Start-Up Challenge somewhere near the front end. "Starting a company can be pretty lonely and stressful. You feel like

you're on your own in the middle of nowhere. Through this movement we're trying to make it feel like you're part of something and that people will help you."

Or help you back up again. Among entrepreneurs, failure isn't something to be forgiven; it's almost a badge of honor. "Entrepreneurism is a skill, like shooting a basketball," says Rhee, "and if you want to get better at it, you have to practice. Part of getting better at it is just doing it again and again."

Tony Brown puts it bluntly: "Unless somebody's failed a couple times, I'm not going to fund them. Some kids come to Duke without having tasted failure. It gets in the way of their efficacy."



Decision time: Judges huddle on stage to weigh the three presentations.

W

hat good fortune, then, that on the night of the Start-Up Challenge two of the three finalists will fail. Indeed, the road is littered with corpses:

Two-thirds of the entrants didn't survive past written summaries; the forty that moved on had to create a website and a video pitch. Judges whittled those down to nine semifinalists, all of whom are invited to the grand finale. Those who didn't make the final three get to do one-minute elevator pitches, a kind of warm-up act for the main attraction to follow.

The audience rises to the occasion with hoots and whistles as we zoom through presentations on a new crowd-funding site, a "revolutionary tool that aims to bridge the disconnect between the physical and digital worlds," a DNA-based marker for

keeping frackers honest, and a scheme for providing home health care in China. One presenter brings in a prototype of athletic apparel, inviting the judges to stroke it; another finishes with a balletic leap to get off-stage within his minute. A third forgets that the projectors are shining his presentation right across his face.

Keynote speaker Rich Lee, a Duke parent and serial entrepreneur who has donated half the \$50,000 prize money, takes the stage to invoke Archilochus' ancient notion that "the fox knows many things, but the hedgehog knows one big thing." The lesson for entrepreneurs, Lee concludes, is that "somebody will pay hedgehogs for what they love to do." The crowd

roars with delight, and the three champions stir. Vijay Agarwal's knee is oscillating at about 180 beats per minute as he looks darkly at his pager and reaches for his mobile phone. Hospital calling.

In past years, the winner has been chosen in advance behind closed doors, but this time the event has been tweaked so it all happens live. There's no rehearsal, no safety net. The raked slope of the auditorium makes the stage seem like a gladiatorial arena; the judges, holed up at center left, are the lions.

Agarwal goes first. He skillfully navigates his material but then seems to dodge a question about his pricing

model. Someone whispers—eliciting a groan—that the neurosurgical device is a no-brainer; but how do you monetize it? The on-deck undergraduate speakers clutch their hands, fold their arms, cross and uncross their ankles.

When Ting-Ting Zhou gets up, she rocks slightly from foot to foot as she talks, racing, forgetting to enunciate. In an interview before the event, she had revealed a possible Achilles heel: Turns out the intellectual property underlying Nanoly's product is owned by the University of Colorado at Boulder. "They've agreed to license it to us," Zhou assures. "Well, we've pretty much assumed they will agree to license it to us. The guys in the lab are willing."

A few mumbled words get lost in the Q&A, but Zhou acquits herself with valor: Her team members have already engaged the FDA, Merck, patent lawyers, and ven-

ture capitalists. She'll be taking the summer off to raise another round of funding. James Sawabini speaks last, emboldened by having the most vocal contingent in the audience; indeed, he also won the pre-contest Facebook popularity contest, getting up early to text his friends around the country and amass more than 600 votes.

quality and depth of thinking in all three business plans, the panel gets quickly to the nitty-gritty. "Two of these three businesses—Zamsolar and Nanoly—sell to customers who don't have any money to spend," says one judge flatly. "Investors need to make money." Another questions how Sawabini and his business partner

all three. "If you were approached by a major foundation that said, 'We'll give you \$50 million if you agree to become a nonprofit and never take more than \$200,000 a year out of the business,' would you pursue the business plan under those terms?" Zhou instantly answers affirmatively, and after a pause, so does Agarwal. Sawabini is silent.

The presenters step down, and the audience starts tweeting in votes, which count for 20 percent of the final tally. The judges, who get the other 80 percent, form a football huddle onstage. Some kneel, others lean in to hear better as behind them the Blue Devil hurls T-shirts into a screaming audience.

After a few moments, the din recedes, and Rich Lee emerges on stage with an envelope, which he opens to a Thunderstick drum-roll. "Ladies and gentlemen, tonight's winner..." Lee beams, "Nanoly."

Ting-Ting Zhou is mobbed, looking like a beauty queen as she poses with the inevitable gigantic check. I fight my way through the crush to ask her what she wishes she had done differently. "The Q&A," she says immedi-



To the victor: Zhou beams as Nanoly is announced as the winner of the grand prize.

"Hey, guys," he begins with a disarming smile, and like the others he has a lot to say. Showing up early pays off—he's comfortable with the room and stage—but he stumbles over a transposed phrase, recovers, laughs with the crowd, and then gets cut off at the end, reaching his ten-minute mark just as he tumbles to a conclusion. The judges are sympathetic but skeptical. "You're trying to re-create AT&T in Zambia," one challenges immediately. Asked how his team would manage the large organization required, he describes running his high-school newspaper.

In another bit of *American Idol* showmanship, the three finalists gather back on stage to hear the judges' pre-vote critiques. While there is considerable praise for the

"Entrepreneurism is a skill, like shooting a basketball, and if you want to get better at it, you have to practice."

could put together an African distribution network. "What if," someone wonders gently, "you did a smaller market with more than one product?"

"Focus less on the idea and more on the execution," advises another.

But Agarwal's CranioVation, which looks like it might have the lead, also takes a hit for his being perhaps too eager to exit the market at almost any time. And, notes judge Karen LeVert, president and CEO of Southeast TechInventures, "all the projects are undercapitalized."

Finally Tom McMurray B.S.E. '76, M.S. '78, Ph.D. '80, president of Marine Ventures Foundation, poses a question to

ately and earnestly. "I should have been better prepared." Her parents hover in the background, letting her have her moment.

I ask Agarwal the same question. He shrugs. "We would have won if I'd had a better answer about pricing."

Sawabini lingers as the boisterous mob thins out. I raise an eyebrow at him. "I guess I could have talked more about profitability and all that crap," he says irritably, then pauses.

"You know this is only the first iteration of our plan." ■

Baerman M.B.A. '90 is a playwright and essayist. He lives in Chapel Hill.

The skeptics are cordoned off by white drapes at the north end of Milk Studios in Manhattan, while the targets of their awe and ire, Sean Parker and Shawn Fanning, scramble to prep their latest, super-secret tech venture for its unveiling. The details surrounding Airtime, Sean and Shawn's first joint effort since Napster, have been sealed in silence, and though dozens of leading tech journalists were invited to Milk today for the launch, Airtime is rumored to be unnervingly glitchy. The event's scheduled start time has long past, and the journalists smell blood. But for the moment, they're mollified—audibly gushing to one another—by a platter of banana-bread peanut-butter-and-jelly sandwiches.

The effect is that the patience of the mob is buoyed. There's less milling and rocking on heels in the holding tank. Which makes it easy to spot the one figure slicing through the horde who's both in control and plenty at ease. This is Maneesh Goyal '97—tailored blazer, wrist-width tie, and a stern of sculpted black hair. It's the first time I've seen him in action at an event his experiential and digital marketing firm, MKG, has produced. "The pb&js? Yeah, that's us," he says, when I suggest the overwhelming enthusiasm. "Every bit of logistics from there on up."

MKG—both Goyal's initials and a useful vowel-less contraction of "marketing"—occupies a specialized edge of the advertising industry. Its prerogative is in creating an experience—not a tagline or image, but an event or environment, a real-life opportunity to interact with whatever it is a client wants to sell. (Goyal is quick with bits like this: "The CMO of Starbucks says you can't build a brand if consumers aren't experiencing it.") Since entering the experiential-marketing business in 2003—an industry Goyal says he "didn't even know existed until I was working in it"—MKG has quickly become one of its biggest players. At first a one-man shop, Goyal now has forty-three employees, fifteen of whom are moving from one behind-the-scenes corner of Milk to another like shadows, nailing down the million moving parts of the event.

"My team's done a great job, but I've got to be honest: I'm a little stressed," Goyal says coolly. "The technology is still a little sticky. The Airtime guys were writing code at 3 a.m. last night. And Parker's intense. We work with plenty of talent, but when you're dealing with that cult of personality...Sean's back there

working on it right now, taking issue with the temperature of the room. He's kinda freaking out..." He pauses—though not long, never long—"for reasons that don't have anything to do with us."

After an hour delay, the curtains are pulled aside and a junior MKG staffer relays via headset that "the audience is loading." Martha Stewart skips up to the stage from her seat in the front row to take a photo of the full house. Jimmy Fallon, whom the journalists had heard from their side of the curtain running through his one-liners—"even Lars Ulrich can use Airtime"—dashes out and hits them with the funny. Airtime, it turns out, is a video-chat website built atop your Facebook network that makes

it easier to talk online with friends. Once Fallon has warmed up the crowd Parker "Airtimes" with Olivia Munn, who in turn Airtimes with Snoop Dogg, and so on, in a baton-relay of celebrity chatter. By the time we reach Joel McHale, though, things have fallen apart. Connections fail, images freeze, audio garbles. It's a testament to the comic dexterity of the actors—McHale: "Who are you going to fire over this?"—that the presentation doesn't rupture irreversibly.

As audience members begin to mutter, Goyal offers, perhaps a little too willingly, that Sean and Shawn's event is "really their baby." He recognizes that the snags offer journalists a chance to seize on the notoriously prickly Parker, which is probably exactly what they'd hoped for. But on the other hand, the *vision* of the event is expressed

articulately and executed immaculately. The guest list, the venue, the stage construction, the fashion-show lighting, the hand-crafted birch-and-maple stations available for Airtime demos, and the pb&js—these are the instruments of MKG's influence. For all its technical problems, Airtime's launch has an atmosphere of glitz and polish that softens its rougher edges.

By the time he's forking calamari at the members-only Soho House in the Meatpacking District, Goyal's attention has turned to other things on the coming weeks' schedule—the Whitney Art Party, the meeting with Google, the event for Persol. He chats casually about MKG's new office in Los Angeles and the lucrative acquisition offer he just fielded, and I get the sense that Airtime's rocky demo will effect about as much pause on this guy's momentum as a peanut on a track would a train's.

Master of experience: With MKG, Goyal is building a niche in an industry he didn't know existed.

LIVING THE BRAND

Maneesh Goyal '97 turned a knack for throwing a great party into a marketing powerhouse by understanding one thing: how to make people want what they never knew they wanted.

By Daniel Riley • Photography by Yunghi Kim





Making it click: Goyal offers a few last words for his staff before an event. “I believe in my team,” he says, “that we’re capable of so much.”

The shortest distance from the elevator bank to Goyal’s corner office near the rear of MKG’s SoHo headquarters is past a white porch swing, a London phone booth, a bank of non-cubicle cubicles, and a blackboard with MKG’s core values (postulates like “Bring your funky self”). The 10,000-square-foot loft buzzes, and not just on account of the electricity passing through the office’s many neon features. There’s a heightening, a hum, a palpable current. There’s current in Goyal’s furniture, his ice-water decanter, in the emphatic presence of his hands, and in most things he says. He believes in stuff. Answers are often framed as declarative philosophies: “I create experiences for people”; “I am a consummate social creature”; “I am an agent of change.”

I get the sense during our hours together that Goyal has worked his way through his story—that early chapters of a memoir have been drafted. And then he comes right out with it: “But when I write a book it’ll be about building a business, not throwing a party.”

The first part of that book would be a narrative of unchanneled ambition. After Duke, where Goyal says he had a pretty fulfilling four years on both the academic and social fronts, the idea was to devote himself to nonprofit work. (He first describes the goal as “wanting to work for an NGO,” but later suggests it was really “wanting to become the executive director of a cool, progressive, possibly international nonprofit.”) A master’s degree in public health from Yale was followed by a string of low-level posts in organizations he summarizes as “helping others.” But the work felt small and unsatisfying.

Four years after graduating from Duke, Goyal found himself a little jobless and a little directionless, and so he started picking up

shifts at events. Ten bucks an hour moving boxes, that sort of thing. “I would come home, and I’d think, *that felt good*,” he says. “I knew enough to know that I wasn’t always going to be making ten bucks an hour. And then the P. Diddy thing happened.”

The P. Diddy thing—how Goyal ended up as a part-time party planner for hip-hop mogul Sean Combs—is more or less MKG’s chiseled origin myth, and it goes like this: “The week before 9/11, when I was twenty-six, I was asked to work on Puff’s MTV Video Music Awards party. I wasn’t hired to do the party—there were several layers above me—but I was still engaged. At that point I was trying to get as much work as I could. I made a couple hundred bucks for the project. It was fulfilling, it was cool, whatever. The next week, 9/11 happened. I was living in SoHo, and there was the curfew below 14th Street, and if anything it kinda gave me fortitude to eschew foundation work and commit to something I felt passionate about.

“A couple months later, I get a phone call from Puff’s office saying, ‘Hey, we want to talk to you about doing this New Year’s Eve party in Miami.’ And I was like, ‘Oh, you called the wrong person.’ I wasn’t *the guy*, I wasn’t in charge. But they were like, ‘No no no, we know who you were at the event, and we want you.’

“I think they’d latched onto something that I credit for why I’ve been successful to date”—and here he commands the shades down with a remote control shaped like a stone. “It’s an uncanny connection to client service and humility in an industry that’s overrun with really aggressive personalities. Because I knew I was gonna be the first one kicked out of contention to work this party, the only one who didn’t belong at the table, I didn’t need to over-prove myself. Puff started calling me ‘Yalie’ just because he was so im-

pressed that someone around him went to Yale.

"This was when Puff was at the top of his game, when he *was* the consummate party. I had never been to Miami before. Every place I had ever been in my life, it was cold in December, including Dallas, where I'm from, and even North Carolina. And so I brought turtle-necks and sweaters to Miami, and everyone was laughing at me. I was in over my head. But it turned out spectacularly, that event I ended up doing at the Shore Club in Miami. And it started me down the path."

Goyal worked with Combs for three years, planning VMA parties and other special projects. But he was careful to resist becoming a "hip-hop guy, a music industry guy." With the new visibility and a proactive pursuit of back-scratching partnerships with big-time PR firms, he began to draw billings from corporate clients. Vitamin-water. Estée Lauder. And perhaps most critically, Delta, for which he started working in fall 2003 and now oversees the strategy and execution of all sponsorship marketing and event-based marketing.

In April, Goyal had just returned from a week in L.A. for a project called Delta Day with the Los Angeles Lakers, part of his plan to position Delta as L.A.'s hometown airline. For the event, MKG constructed a court on the plaza in front of the Staples Center where fans could shoot from spots on the hardwood that corresponded to free trips. (Drain a jumper from the top of the key and fly non-stop L.A.-to-Tokyo, and so on.) "Our directive is to integrate Delta and that city. We've done some important things with some key properties that Angelenos will care about. Using sponsorship and passion-point marketing as a way to kind of get to the people. Getting into bed with the Lakers and becoming their official airline was one big key component. But that's not enough: We can't just have your logo out there and rely on that. You've got to actually do something physical, and that's obviously where we come in, to help create programs that will live from an experience standpoint." Love equals Lakers equals Delta—a set of links familiar to their re-tailer-based client.

MKG works with project-based clients, too. Say, for example, Jaguar wants a one-off showcase of its new line, but in a more memorable manner than on the Auto Show circuit or a dealership lot. In that case, MKG constructed a giant snow globe (at the height of summer) near the High Line in New York—complete with free iced coffee and snow cones. "The Chill Zone" brought consumers out of the heat, and into very close and cool proximity to Jaguar's new goods. Or there's the pop-up store in Times Square MKG created for *Wired* this past winter. Does a reader, or a stranger on the street, feel more connected to a magazine's brand after stepping inside those walls? *Wired* is betting on it.

And so are many others. Goyal still was running the operation out of his apartment when he hired his first employee in 2005—a deputy who's still with him. Now he has staffers on both coasts, including four at MKG's new office in Los Angeles, where Goyal spends typically eight to ten days a month. Executing individual projects and tethering new brand clients was never as much *work* as most would consider it. The "new business" business, the client service, the face-to-face—that's what Goyal lives for.

Which is how he's often able to make it to two or three events each night, every night. "Some people groan when they think about my schedule in the evenings. But for me, coming off a big night of hitting a few events and meeting a bunch of people, I'm fueled up.

Whereas other people would be depleted and need a week to recover, I'm ready to go the next day. That's just my DNA."

The energy thing—it can't be overstated. It's like a switch rusted stuck in the on position. Each time we meet, Goyal's rundown of what he's been up to seems to suggest that even by boundless, rich-person standards, he's capable of building a month's worth of highlights into just a few days.

And yet, since the t-crossing and i-dotting of MKG's day-to-day are now executed mostly by staffers, Goyal is left with calendar space to scribble in extracurricular busynings. Things like devising morale-boosting initiatives for his employees ("I'm an office culture acolyte," he says), or hooking up with foundations connected to high-import causes (he served six years on the board of the Empire State Pride Agenda, the group that effectively sparked the marriage-equality debate in New York), or, most recently, flexing fundraising muscle as a newly anointed Obama bundler. "Wariness, a sense of being overstretched," he says, "it's just not part of who I am."

Above all, though, that fuel seems to burn most efficiently when socializing. He pushes a "never eat alone" mandate, preferring whenever possible that breakfast, lunch, and dinner be slated in advance. And in early April, when I'm buzzed up to the Union Square loft Goyal shares with his partner, he's got a couple of assistants and a chef from the West Village cubbyhole Recette doing prep work in the kitchen. Goyal's hosting a dinner party—one of the "salons" he likes to pull together at least once a month. In addition to his partner when he's in town (Andrew's a group vice president at Macy's; "an accounting nerd," Goyal embroiders it affectionately), he likes to invite new and old friends from unlike industries, most of whom are strangers before that evening "and all Facebook friends by the end of it," he says. Throw 'em in the deep end together, is how Goyal sees it, only the deep end is a 2,500-square-foot second-story corner unit with wall-to-wall windows, gutted and renovated, and decorated with reflective silver balls and mixed paisley patterns. It's tricked up, too. Electronic sensors on the bedroom door. Roman shades. A hotel bar's cache of fancy booze squirreled away in kitchen drawers. (There's a tour of the apartment on YouTube.)

When we sit down to talk (the leather lump I've planted myself on is wrapped in fabric from one of his mother's old saris), the conversation hangs close to the dinner party, and Goyal runs down tonight's guest list: mostly brothers or mothers of famous people I've heard of, plus that brunette from the omnipresent T-Mobile campaign. They are all "my close friend," or at least "a friend."

At one point, back on the business, I ask him the question I've been eager to press upon an advertising exec: Why wouldn't clients just hire their own in-house team of marketing geniuses and cut you out?

"It's the age-old question, right? Do you do it yourself, or do you outsource it?" Goyal says. "And I think that in this particular business landscape, you just cannot build brands without partnering with real strategic think tanks. Every brand does it. They have people in-house who do what we do, but they'll always partner with agencies because you get critical thinking, and because basi-

"Some people groan when they think about my schedule in the evenings. But for me, coming off a big night of hitting a few events and meeting a bunch of people, I'm fueled up."



Peak performance: A self-proclaimed "office culture acolyte," Goyal focuses on touches that keep MKG's vibe electric.

cally we're doers. I believe in my team, that we're capable of *so much*. We end up doing a lot of the doing on behalf of the client."

There are brief stretches of diligent answers—answers that it sometimes seems have been written and rehearsed and edited—when I start to drift. Music mists from the speakers ("I hire someone to program my iTunes for the parties," he mentions) and spring light comes low through the windows, reflecting off the lettering on some Art Basel Miami coffee-table-book spines. I'm really flagging, it's been a long week, I could use some sleep. And in that moment, amidst the luxe toys and the preparations for yet another social carnival, I realize this thirty-seven-year-old will never feel the way that I do now—and this is why he believes anything is possible.

The money, yes, but never just the money. It shouldn't surprise that Goyal cares about the bottom line; he's a founder and CEO of a business that sinks or swims by the machinations of moneymaking. And yet for all the evident transformation since college, there still seems nothing more authentically critical to Goyal than philanthropy. He requires his employees to do community service and to donate a hunk of their annual bonuses to charity, but "executive director of a cool, progressive, possibly international nonprofit" he is not. It's just MKG seems to stitch "doing well" and "doing good" more thoughtfully than you'd imagine. Almost like the two halves of a baseball hide, sharing a border at all points.

"This is totally the gateway to doing more and more," he says. "I'm so much more capable in my agent-of-change work from where I'm sitting. Someone once told me you want a triple-net benefit: You want to help your bottom line, you want to help others, and you want to help the planet. I really responded to that."

sweet spot for living.

It's a nice idea, if a little inchoate. What Goyal plans to do, though, is put it through the wash as he would the new lie-flat business class seats for Delta. That is: purchase URLs (for both "grey" and "gray"), build a Twitter account, hire a publicist, pair the message with inspiring stories from real-life liveinthegrey/gray types—"John Legend, for example, who's a friend"—and carve out a content pool that could lead to viral campaigns, television, events, and ultimately a national competition. Crown a LitG winner, some young person who resists the pressure to find a safe career and instead lives blindly, following his or her passions, feeling around for a job that doesn't suck. "This

is just such an important aspect of who I am," he says, "because if I'd listened to what people were telling me I was supposed to be doing, I'd be a miserable doctor right now. And not a very good one."

Instead, there is MKG. And what MKG does really, really well is create experiences. Fun, memorable experiences that make you want to hang out with—or buy, or use, or whatever—the things those experiences were designed to promote. Experiences that make you wonder whether you're truly content with your bicoastal carrier, or if there's perhaps a better alternative. A version of yourself, maybe, that flies to L.A. for twenty-four hours, works in SoHo by neon light, hosts salons with the T-Mobile girl, and gets—this is the cherry—your corn knifed off the cob for you at members-only clubs in Manhattan. It's a life that looks good. And the way it's been presented to me—each of these experiences—I kind of want that life even though I've never wanted anything like it before. Though working for MKG isn't exactly for me, I sure could get used to being the boss. In other words: I'm sold. ■

Riley '08 is an associate editor for GQ.

Muse

BOOKS

Don't fence me in: *Colors of Confinement*, published by UNC Press and the Center for Documentary Studies, features rare Kodachrome photographs of Japanese Americans incarcerated at Wyoming's Heart Mountain Relocation Center during World War II. Amateur photographer and internee Bill Manbo took most of the book's photos, including this one of his son, below.



Solving the Crime of the Century

A new book by Robert Zorn '79 unwinds the conspiracy behind the Lindbergh kidnapping—and proves his father right.

In 1932, toddler Charles A. Lindbergh Jr. was kidnapped and held for ransom in a case that made international headlines as “the Crime of the Century.” Lindbergh, the first-born son of aviation hero Charles A. Lindbergh and his wife, Anne Morrow Lindbergh, was later found dead. A Bronx carpenter

named Bruno Hauptmann—who claimed innocence until the end—was eventually convicted and put to death for the crime.

“I kept thinking that I might find evidence which disproved my father’s theory. But I kept finding more and more evidence that proved him right.”



Mounting evidence: A 1932 police sketch of “Cemetery John,” the kidnapper who collected a \$50,000 ransom in a Bronx cemetery, left, and a photo of John Knoll, who left clues about the kidnapping for Zorn to discover.

Courtesy Robert Zorn

But many people remained convinced that Hauptmann had not acted alone. The child had been abducted from his second-story bedroom and carried down a ladder, a task seemingly unmanageable for just one person to accomplish. And then there was the shadowy figure dubbed “Cemetery John,” who had intercepted the ransom payment during a graveyard rendezvous, and who bore no resemblance to Hauptmann.

Eugene C. Zorn Jr. lived in the same New York borough as Hauptmann. Over time, Zorn be-

came convinced that, as a teenager, he had unwittingly overheard a conversation plotting the Lindbergh kidnapping—and that his former neighbor, John Knoll, might be the man known as Cemetery John. On Christmas Eve 2006, as he lay dying, he asked his son, Robert, to uncover the truth about who kidnapped and killed Charles A. Lindbergh Jr.

In *Cemetery John: The Undiscovered Mastermind of the Lindbergh Kidnapping*, Robert Zorn has fulfilled his promise. During three years of research, Zorn amassed a preponderance of evidence to reach a stunning conclusion: Three men were involved in the kidnapping conspiracy, including Hauptmann and Knoll, who had befriended Eugene Zorn

in the early 1930s. What’s more, Knoll, whose physical description matches that of the never-identified Cemetery John figure in the case right down to a deformed left thumb, intentionally and systematically provided the teenager with clues about the crime.

“I kept thinking that I might find evidence which disproved my father’s theory,” says Zorn, whose quest became all-consuming. “But I kept finding more and more evidence that proved him right.”

Zorn reached out to dozens of experts to help him understand and interpret new evidence he uncovered through interviews and archival research. The experts used twenty-first-century criminal investigative

BOOKS

Journeys of Faith and Discernment

What does it mean to be a person of faith in today’s world? Two new books—*Amazing Gifts: Stories of Faith, Disability, and Inclusion*, by Mark Pinsky '70, and *The Messy Quest for Meaning: Five Catholic Practices for Finding Your Vocation*, by Stephen Martin '95—explore the question from different perspectives.

With the return of injured veterans from the Iraq and Afghanistan wars, a growing population of aging Baby Boomers, and a rising number of people with conditions such as autism and depression, churches are being asked to alter both architecture and attitudes to serve their members. Pinsky, a religion writer

for the *Orlando Sentinel* and the *Los Angeles Times*, explores the challenges and spiritual imperative of welcoming people with physical, psychiatric, and intellectual disabilities into congregations.

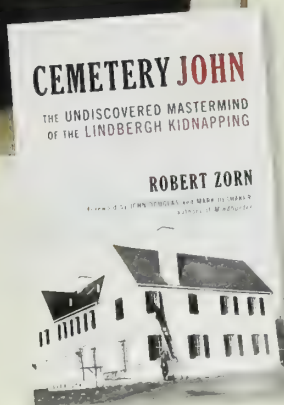
Martin, a former *Duke Magazine* intern who now works for the Center for Creative Leadership, draws on his own personal struggles to find meaning in an increasingly complicated and divisive world. From the wise guidance of late Duke professor of French Wallace Fowlie to spending time with Trappist monks, Martin’s journey of discovery serves as a guidebook for readers seeking ways to discern purpose in their own lives.





Caillin Urban

Detective work: Author Zorn with the issue of *True* magazine containing an article about the Lindbergh case; Zorn's father came across the magazine in a barbershop and started piecing together decades-old memories of a neighbor he suspected was involved.



techniques—forensic pathology and linguistics, handwriting analysis, psychiatry, and psychology—to re-examine existing evidence. The group included retired FBI special agent John Douglas, who pioneered the FBI's Behavioral Sci-

ence Unit; former New Jersey Gov. Brendan T. Byrne, who had long believed that Hauptmann had accomplices; and forensic anthropologist Kathy Reichs, producer of the television show *Bones* and the model for its main character. After studying the evidence, even a niece of John Knoll's told Zorn, "Uncle John should have done the right thing and turned himself in."

Cemetery John has prompted renewed public and media interest in the Lindbergh kidnapping. PBS's *Nova* will air a special featuring Zorn's story in early 2013, and a Hollywood film producer has already approached him about a possible movie treatment.

Zorn sometimes imagines confronting John Knoll with the proof of his role as the criminal mastermind of the case. But that confrontation only happens in Zorn's imagination. Two months after Eugene Zorn first shared

his suspicions about the Lindbergh kidnapping with his son, John Knoll died after falling off a ladder and hitting his head.

—Bridget Booher



Jianghua Ho

MUSIC

Telling Stories With Music

When composer George Lam A.M. '08, Ph.D. '11 wanted to produce an original opera as part of his dissertation, he started the Duke New Music Ensemble to ensure the work would be presented to a wider audience than just his peers and professors. "The Persistence of Smoke," which ultimately involved several Duke departments and programs, meshed music with oral history and documentary to tell the story of Durham's tobacco industry.

Lam now lives in New York, where he's a production associate for Gotham Chamber Opera and Music-Theater Group and co-director of Rhymes With Opera, a group he helped found in 2007. This past summer, he premiered new works for three distinct audiences: *Transfiguration Sunday*, an anthem he wrote for Christ Church United Methodist in Manhattan; his multimedia chamber opera *The Love Song of Mary Flagler Cary*, which was performed at Manhattan's DiMenna Center for Classical Music; and a commissioned arrangement of a Cantonese folk song that was performed by Hong Kong's Sinfonietta as part of its "Good Music for Babies" concert series.

For his next project, Lam is working with New Morse Code, a Connecticut-based trio, and members of Rhymes With Opera to compose and produce a work that focuses on expatriates living in the U.S.

THEATER

Taking the Show on the Road

For playwright Martín Zimmerman '07, all the world's a stage—or at least all of the U.S. Based in Chicago for the past two years, Zimmerman was recently named a Jerome Fellow, the longest-running program of the Playwrights' Center of Minneapolis, where he will spend a year developing a new full-length work. Zimmerman is no stranger to local theater; he has had readings and performances of his work in Atlanta, Philadelphia, Washington, New York, and Tucson, Arizona, to name a few. "It's wonderful to see all the different areas of the country where people are excited about theater. There's all that talk about theater waning as an art form, but in the past thirty years, theater is clearly proliferating," he says.

One benefit of such an approach is being able to see how different writers, artists, and companies experiment with new trends and ideas—even if they may be contradictory at times. "There's a lot of discussion about how theater can work with technology, and a lot of people doing wonderful work about social media with theater. But I'm interested in pulling away from technology and forcing myself to do plays in barebones ways that require ingenuity, not technology, to enact," he says. "Personally, the experience of going to theater should feel like going to church or temple."

Sports

Perfect Position

With two Olympians returning, Duke's diving team expects to make a splash.

By Mike Schreiner

In the year leading up to the London Olympics, two pictures hung in the corner of the Taishoff Aquatics Center, home of the Duke swimming and diving program. Positioned between the ladder divers use to exit the pool and the one they use to summit the diving platforms, the images showed the inside of the London Aquatics Centre, the site of the Olympics diving competition. One was a full view of the arena from a spectator's perspective. The other was taken from the top of the diving platform—the view competitors would see just before making an Olympic dive.

Five years ago, those pictures would have represented a nice fantasy, but nothing more. At the time, Duke's diving program had never yielded so much as an All-ACC diver. An Olympian? It would have seemed too lofty an ambition.

But look at Duke diving now. Two Duke divers—seniors Abby Johnston and Nick McCrory—competed for the U.S. in London. Johnston won a silver medal and McCrory a bronze in synchronized diving, and McCrory placed ninth in the ten-meter platform diving competition. Their coach—Duke diving coach Drew Johansen, the man responsible for those photographic reminders—was selected to lead the U.S. diving team, which won four medals after having been shut out during the previous two Olympics.

And the best may be yet to come. With the Olympics behind them, Johnston and McCrory are back

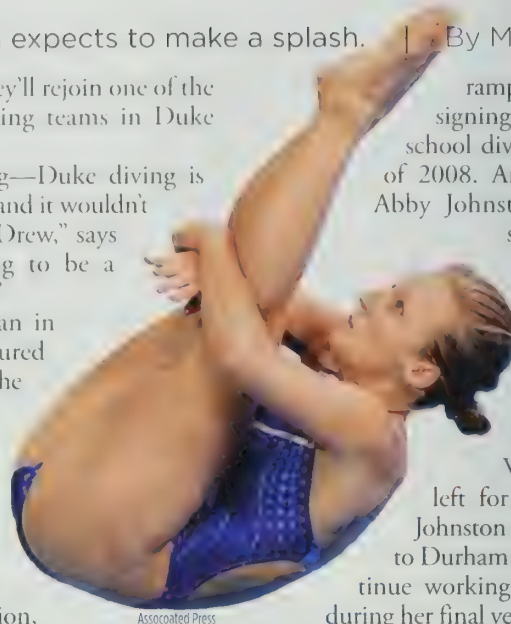
in Taishoff, where they'll rejoin one of the most promising diving teams in Duke history.

"It's really exciting—Duke diving is making great strides, and it wouldn't be possible without Drew," says McCrory. "It's going to be a good year for Duke."

Those strides began in 2007, when Duke lured Johansen away from the USA Elite Diving Academy, a junior and senior diving program he founded in Columbus, Ohio, in 2001. One of the top private diving programs in the nation, Johansen's academy had trained three high-school state diving champions in 2006. But he was intrigued by the Duke program, which he says was "doing a good job on the conference level" but had higher aspirations. Duke had converted a part-time coaching position into a full-time focus on diving—a sign, says Johansen, that the university was taking the sport seriously.

"When Duke decided they wanted to support diving as a legitimate top program in the country, it was a no-brainer," he says. "I jumped at it immediately."

In his first season as head coach, Johansen helped Julie Brummond '10 become Duke's first-ever All-ACC diver. He also



Associated Press

ramped up recruiting, signing four top high-school divers in the spring of 2008. Among them was Abby Johnston, a two-time state champion diver from Ohio who had trained with Johansen at the USA Elite program since she was twelve.

When Johansen left for Duke in 2007, Johnston followed, moving to Durham so she could continue working with her coach during her final year of high school.

"I have just gotten along with him well," Johnston says. "He knows how to push me, and I trust that what he does is in my best interest all the time." Making the Olympic team, she says, was a goal she and Johansen began focusing on when she was fourteen.

Johansen has long roots with Duke's other Olympian as well. Nick McCrory started training with Johansen before he entered high school in Chapel Hill. After narrowly missing the Olympic team in 2008, McCrory signed on to be part of Johansen's second recruiting class. "Working with Drew is something I really wanted to continue," McCrory says. "He studies [divers] and takes on a really technical perspective, changing little details

DUKETICKER



OLYMPICS: Nick McCrory and Abby Johnston weren't the only Duke athletes at the Olympics. Here's a rundown of Duke's ties to the games:

The U.S. men's basketball team, coached by Mike Krzyzewski, went undefeated in the Olympics, surviving a close game against Spain to win a gold medal. Krzyzewski became the first person to coach the U.S. men's team to back-to-back gold medals since Henry Iba in 1964 and 1968.

Also in men's basketball, former Duke players Luol Deng '07 and Martynas Pocius '09 played for Great Britain and Lithuania, respectively. Great Britain's team was eliminated in group play; Lithuania reached the quarterfinals of the medal round.

Shannon Rowbury '07 advanced to the finals of the women's 1,500 meters, where

she finished sixth and was the top U.S. performer in the event. It was the second Olympics for Rowbury, who finished seventh in the 1,500 in the 2008 games.

Jillian Schwartz '01 represented Israel in the pole vault, but did not advance to the event finals.

Rebecca Smith '03 played as part of New Zealand's women's soccer team, which was eliminated in group play.

Hiroshi Hoketsu A.M. '68 represented Japan in the equestrian sport dressage. The seventy-one-year-old rider, whose last Olympic appearance was forty-eight years ago, is the oldest person to compete in the Olympics in nearly a century. Hoketsu, who finished in the middle of the pack, told reporters he would not compete in the 2016 games because his horse was too old.

that will make a huge difference.”

With Johnston and McCrory leading the way, Duke rose to unprecedented levels of diving success. McCrory won national championships in each of his first two seasons at Duke, earning All-American honors in three events. Johnston, also a three-time All-American, won her first national championship in 2011, earning the title in the three-meter springboard event. That season, Haley Ishimatsu, a Californian who qualified for the 2008 Olympics

“It’s really exciting—Duke diving is making great strides, and it wouldn’t be possible without Drew.”

coach—will pay dividends down the road.

“It speaks volumes to the type of program we run here—how intense our training can be and that we have very high goals,” she says. “It shows that Duke is full of well-rounded people who excel athletically and academically.”

It’s that blend of academic and athletic opportunity that Johansen says sells so well with elite divers. For example, one of this season’s top recruits is Kendall McClenney ’16, a Texas native who had a strong showing at the U.S. Olympic Trials. McClenney chose Duke after Johansen stressed that she would have the chance not only to compete, but also to pursue other inter-

ests on campus. After watching Johansen work with the Duke divers, she was sold.

“I loved the way Drew coached,” she says. “It was very laid-back, but you could also tell he would really work hard.”

McClenney joins two other heralded freshmen—Deon Reid of Long Beach, California, and Jaimee Gundry of Surrey, England—who will debut for Duke this fall. In addition to Johnston and McCrory, three

divers return from last year’s team, which has Johansen excited about the program’s future.

“Duke diving has been coming up pretty quickly on the map in the last four or five years,” he says. “As I look into my next recruiting class, I’m looking at the kids that potentially are going to be on the 2016 [Olympic team] to keep us bringing home those NCAA titles and striving to be at the highest international stage.”

And so the London photos have been taken down off the walls in the Taishoff pool, and the focus is squarely back on NCAA competition. But in about three years, expect Johansen to start searching the Internet for just the right picture of the Maria Lenk Aquatics Center in Rio de Janeiro. ■



Showing medal: Nick McCrory and Abby Johnston, with coach Drew Johansen, returning from London

when she was just fifteen years old, became Johansen’s third ACC champion, winning the platform diving title. Johansen, meanwhile, was named a USA Diving Coach of Excellence in 2010.

All three divers stepped away from NCAA competition last season to focus on training for the Olympics. (Ishimatsu, who did not qualify for the Olympic team, has since transferred to the University of Southern California.) And while that may have hurt Duke’s team performance last season, Johnston says having three Olympians—two students and one



JC Ridley

THESCORE

BASEBALL: Chris Pollard, former head coach at Appalachian State University, was named to lead Duke’s baseball program. Considered a top recruiter, Pollard guided Appalachian State to six consecutive thirty-win seasons and was selected as the 2012 Southern Conference Coach of the Year. He replaces Sean McNally ’94, who resigned after seven seasons with the Blue Devils.

WOMEN’S SOCCER: Duke’s Kelly Cobb and Mollie Pathman, left, were selected to join the U.S. Under-20 national team that competed at the FIFA Under-20 Women’s World Cup in Japan. Cobb and Pathman are among eleven starters returning from last year’s Blue Devil team, which advanced to the College Cup championship game.



Jon Gardiner

35 and 843
Number of receptions and yards senior wide receiver **Conner Vernon** needs this season to become the ACC’s all-time leader in both categories. In his first three seasons with the Blue Devils, Vernon caught 198 passes for 2,675 yards, a pace that would easily break both records. Vernon also leads all active college football players with at least one catch in thirty-five consecutive games.

A photograph of a young man, Robert Flowers, walking through a large arched doorway of a library. He is wearing a blue t-shirt with a large white 'D' on it, khaki shorts, and a backpack. He is smiling and looking towards the camera. The doorway is filled with other people, some of whom are blurred, suggesting movement. The lighting is bright, coming from the doorway.

Robert Flowers

M.Div. Candidate
Duke Divinity School

CRAZY SMART

It happens about four million times a year—someone walks through the door of a Duke University library.

That's like a visitor every eight seconds, around the clock, all year long.

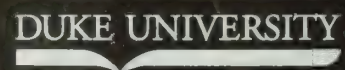
And that's not even counting the six million annual visits to our website (one every five seconds) or eight million searches in our online catalog (one every four seconds).

People choose Duke for any number of reasons. But whether they want to be the next great economist, documentary filmmaker, or heart surgeon, they have one thing in common. They all end up in the library.

That's not just smart. That's crazy smart.

Be counted. Support Duke University Libraries

library.duke.edu/crazysmart

DUKE UNIVERSITY

LIBRARIES

ADOPT-A-HIGHWAY

A Partnership For
Litter-Free
Florida Highways



CONTENTS

DAA CONNECTIONS 60

LIFE'S BROAD SEA 62

CLASSNOTES 63

CLASSIFIEDS 77

"He will be able to give our
kids a point of view that
none of us can as a former
Duke student-athlete."

—Lacrosse coach **John Danowski** on his
son, former NCAA all-time leading
scorer Matt Danowski '07, joining the
team's coaching staff

Forever

Duke

DUKE ALUMNI ASSOCIATION

www.dukealumni.com

A sense of community: A summer send-off party for Shanghai students
heading to Duke, left; Palm Beach County alumni sponsor a semi-annual
roadside cleanup of Okeechobee Boulevard, above, left.

DAAConnections

ENGAGE. CONNECT. CELEBRATE.



On stage: In Houston, Brodhead and Shane Battier traded insights on basketball and Duke's future.

A Moving Dialogue

Duke Idea talks wrap up international circuit.

The set was meant to be like a traveling version of President Richard H. Brodhead's office in the Allen Building; a few high-backed leather chairs placed around a Gothic window-pane that looked over a "view" of West Campus. But for alumni who attended one of The Duke Idea events during the past four years, it was the conversations themselves—lofty explorations of topics such as leadership, education, global health, and the arts—that offered a true window on Duke.

The traveling series, launched in November 2008, featured Brodhead engaging with various university and civic leaders on issues of the day. It concluded in May having visited thirty-three cities and drawing a combined audience of more than 6,000 alumni and friends.

Brodhead's conversation partners included: medical chancellor Victor Dzau, who was joined, in Boston, by trustee Paul Farmer '82, founding director of Partners In Health; deans Nancy Andrews (medicine), David Levi (law), Tom Katsouleas (engineering), Blair Sheppard (formerly Fuqua), Sandy Williams (formerly medicine), and Greg Jones M.Div. '85, Ph.D. '88 (formerly divinity); vice provost for undergraduate education Steve Nowicki; founding director of the Duke Global Health Institute Mike Merson, featured in a TDI program at Baltimore's National Aquarium; and Nasher Museum director Kim Rorschach, who did one program at London's Tate Britain and also was joined, in Miami, by Jason Rubell

'91 of The Rubell Family Collection/Contemporary Arts Foundation.

At Chicago's Lyric Opera House, attendees were treated to "Lessons in Leadership" from Brodhead and men's basketball coach Mike Krzyzewski. In Houston, one of Coach K's stars, Shane Battier '01, joined the president to consider "Duke's Twenty-First Century Charge." In Los Angeles, the conversation partner was behavioral economist Dan Ariely Ph.D. '98, whose subject was "Using Social Science to Improve the World." In Charlotte, Michael Kaston, executive director of the Duke Cancer Institute, engaged with the theme of "Meeting the Challenge of Cancer."

The parents of another basketball standout, Grant Hill '94, retired NFL star Calvin Hill and trustee Janet Hill, talked about "Building Character" in a Dallas program; in New York's Gotham Hall, Judy Woodruff '68 of the PBS NewsHour and John Harwood '78 of *The New York Times* reviewed the media landscape; and former President Jimmy Carter and grandson Jason Carter '97, a lawyer and Georgia state senator, offered thoughts on "Crises and Contemporary Politics" in Atlanta's Carter Center.

At Washington's Kennedy Center, the conversation featured trustee David Rubenstein '70, cofounder and managing director of The Carlyle Group, on "Education, Investing, and Philanthropy"; in Orange County, William H. Gross '66, manager of the world's largest bond mutual fund; and in Charlotte, two philanthropy leaders, Russell Robinson '54, J.D. '56, chair of The Duke Endowment, and trustee Michael Marsicano '78, M.Ed. '78, Ph.D. '82, president and CEO of Foundation For The Carolinas.

In Durham, Brodhead was joined on the speakers' platform by Durham Mayor Bill Bell and Jim Goodman '65, president and CEO of Capitol Broadcasting Company, for a recap of the revival of downtown Durham. And in distant Shanghai, the alumnus in the spotlight was Xiqing Gao J.D. '86, president of the China Investment Corporation.

University officials say alumni around the country—and around the world—will continue to have regional opportunities to hear about Duke's vision. Many of those programs will align with the new Duke Forward campaign.

"The Duke Idea series showcased the breadth of talent and expertise in the Duke community," says Brodhead, "and was a great way to connect alumni to powerful thinkers on contemporary issues."

Duke Idea Venues



International visits:
Shanghai, Singapore, and London



Natalie Sternecker

Alumni Endowed Undergraduate Scholar

WHO: Sarah Watson '16

WHAT: Duke Alumni Association's newest Alumni Endowed Undergraduate Scholar

HOMETOWN: Boerne, Texas

DUKE CONNECTIONS: Father, Clarence Fletcher Watson III '85

WHY DUKE?: "When I visited campus, it was even better than I imagined it would be. I saw people who were driven and determined, and I found myself wanting to be one of them. I applied and was accepted Early Decision."

PLANS: Participate in the Focus Program's "Memory and Invention: Medieval and Renaissance Worlds" cluster; apply to DukeEngage; get involved with Duke Student Government; continue ballet dancing and learn new dance forms; sample Durham's diverse dining scene; join Campus Crusade for Christ; explore a wide range of extracurricular clubs, groups, and opportunities.

QUOTE: "Duke is such an amazing place that it inspires me to be the best person I can be. I am so excited and so grateful to be a part of it."

How are you ForeverDuke?

It may take a village to raise a child, but sometimes it takes a university to help pull off a marriage proposal.

David Kelley B.S.E. '07 and Emily Schmidt B.S.E. '07, M.E.M. '12 were classmates in the Pratt School of Engineering, but knew each other only in passing. Back on campus for Homecoming 2007, they kept bumping into each other and ended up dancing the night away at the President's Dance. Thus began a long-distance relationship that flourished.

Fast forward to graduation weekend 2012. In honor of Schmidt's newly issued graduate degree, Kelley told her he wanted to give her a congratulatory present on top of Duke Chapel, a site that would evoke memories of a similar gift exchange at the top of Rockefeller Center early in their relationship.

Kelley had a large aerial photograph of Duke Chapel to give to Schmidt. But he also had a second, secret present in his jacket pocket. Chapel housekeeper Oscar Dantzler met the couple at the bottom of the chapel's narrow spiral staircase. As they ascended, Kelley gamely lugged the aerial photo up the 239 steps, keeping an eye on the time.

At the top, they set up Schmidt's camera for a timed photo. With his nerves getting the best of him, Kelley fumbled two attempts to take a picture. Schmidt took over. As she started the timer and returned to her spot, Kelley knelt down and started waxing romantic about his love for her.

"When I gave her a chance to speak she didn't say anything, and I realized I hadn't put my speech in the form of a question."

Kelley popped the question formally, and Schmidt said yes. Back down on the chapel lawn, they were joined by family members and a handful of other conspirators in the Duke community who had been in on the plan, including senior associate dean of Trinity College Gerald Wilson B.Div. '61, A.M. '68, who offered to marry them on the spot "to save some time and money."

The couple are now back in D.C., "enjoying our engagement and trying out this new fun word 'fiancé,'" says Kelley. "Many thanks to everyone at Duke who made the proposal dream come true. I couldn't have done it without them."

—Bridget Booher



David Kelley

Sealed with a kiss: Kelley and Schmidt mere moments after the proposal.

Life's Broad Sea

ALUMNI IN THE SPOTLIGHT | By Bridget Booher

Paula Ehrlich '84 may be the only foundation leader whose expertise includes environmental planning, equine surgery, bone physiology, corporate and academic research, and preclinical translational drug discovery and development.

In her new role as president and CEO of the E.O. Wilson Biodiversity Foundation, Ehrlich will use her diverse scientific expertise and leadership skills to guide the foundation's efforts to promote worldwide understanding and preservation of the Earth's biological heritage. Despite the daunting task at hand—the widespread destruction of fragile ecosystems, the alarming and accelerating loss of plant and animal species—Ehrlich says she is eager to forge multi-stakeholder collaborations and educational projects “that improve our global understanding of the nature and diversity of all of life on Earth and why it must be conserved.”

One of the foundation's primary educational tools is *E.O. Wilson's Life on Earth*, an interactive digital textbook designed for high-school students. The forty-one chapter, multimedia resource makes introductory biology come alive, from the micro



Earth in the balance: E.O. Wilson Foundation president and CEO Ehrlich will promote worldwide understanding and preservation of planet's biological heritage.

(a 3D exploration of the inside of a cell) to the macro (changing landscapes and animal migration patterns over time). Morgan Ryan '82 is the *Life on Earth* project director.

Many of the textbook's lessons draw from and document the ongoing work the Carr Foundation is doing in Mozambique's Gorongosa National Park to restore and protect ecosystems that were devastated during the country's protracted civil war. A lesson on the succession of grasslands into forest, for example, is delivered by the park's chief scientist. And Edward O. Wilson—biologist, researcher, naturalist, and Pulitzer Prize-winning author—delivers lessons on evolution and ecology from the savannah where humanity emerged.

While a portion of high-school students who become immersed in *Life on Earth* will go on to become tomorrow's leading conservationists, biochemists, and environmental policymakers, Ehrlich says that the

foundation's broader mission is to make every citizen an informed and careful steward of our natural surroundings.

“We want to help people understand biology and science in a way that changes how they live their lives,” she says. “We want that understanding to be part of our cultural DNA.”

Assistant U.S. attorneys **Richard Tarlowe '97** and **Reed Brodsky '91** successfully prosecuted one of the most significant insider-trading trials in history.

Rajat Gupta, former global chairman of McKinsey & Company and member of the board of directors of Goldman Sachs and Procter & Gamble, was found guilty of providing inside information he learned as a board member of Gold-

man Sachs to his friend and business partner, Raj Rajaratnam, who ran a multi-billion-dollar hedge fund and placed stock trades based on information Gupta provided.

Tarlowe and Brodsky, working on behalf of the U.S. Attorney's Office in New York, were the sole members of the prosecution. Goldman Sachs and Procter & Gamble covered the nearly \$30 million spent on Gupta's legal defense, which was headed by U.S. litigator Gary Naftalis, who had successfully represented Salomon Brothers and



Meet the prosecution: Tarlowe, left, and Brodsky outside the federal courthouse in Manhattan

Kidder Peabody in high-profile securities cases. It took the Gupta jury less than a day to return a guilty verdict on four of the six counts of insider trading.

Aslaug Magnusdottir LL.M. '98

has been named one of *Fast Company* magazine's “100 Most Creative People in Business” for 2012. She is cofounder and CEO of Moda Operandi, which lets customers pre-order luxury clothes and accessories directly from leading designers. Magnusdottir and partner Lauren Santo Domingo, a contributing editor for *Vogue*, attend runway shows and industry showrooms and post photos and videos to modaoperandi.com. Customers then have a short window of time, usually less than a week, to order from online trunk shows—including exclusive pieces that will not be mass-produced for department stores.

More than 250 designers have signed on; the average purchase is \$1,400. Magnusdottir and Santo Domingo raised \$36 million in venture capital to launch their company, including backing from RRE Ventures, IMG, and LVMH Moët Hennessy Louis Vuitton.

Board of Directors, 2012-13

President: **Jeffrey C. Howard '76**

Secretary-Treasurer: **Sterly L. Wilder '83**

Vice Presidents:

D. Michael Bennett '77, Julie Borger Ferguson '81,
Roseann Viscomi Hassey '83, N. Shepard Moyle '84,
Carmichael Roberts Jr. '90, Ph.D. '95, Lee H. Roberts '90,
Suzanne M. Rose '94, Kathleen Kaylor Wagoner '77

Duke Magazine Editorial Advisory Board representative:

Sarah Hardesty Bray '72

Directors-at-large:

Betsy Alden '64, Jack W. Boyd '85, Christopher Brandt '00,
Sharon Stephens Brehm '67, Ph.D. '73, Mandeep Singh Dillon '92,
Palmer Peebles Garson '79, Cecelia Gassner '94,
Nikki Hurst Gibson '80, Jason Goode '97, J.D. '00,
Winston Henderson '90, J.D. '96, Edwin Howard Jr. '63,
C. Howard Nye '84, Joanne M. O'Connor '92, Rodney C. Pitts '68,
Kimberly Dawn Reed '86, Pamela Stone Schearer '73,
Mark E. Stalneckner '73, Paul Teller '93, John Tolsma '95,
Wendy Tsai '92

Professional/school representatives:

Carmichael Roberts Jr. '90, Ph.D. '95,

Graduate School of Arts and Sciences

Wyman Fraser Davis '87, M.Div. '95, Divinity School

Robin Ten Kate M.B.A. '03, Fuqua School of Business

Charles F. Finley Jr. M.F. '67, Nicholas School of the Environment

Ershela Sims B.S.E. '93, Pratt School of Engineering

Amy Hepburn '97, M.P.P. '01, Sanford School of Public Policy

John A. Howell '72, J.D. '75, School of Law

Diana Bures McNeill '78, M.D. '82, School of Medicine

Kathleen Viall Gallagher B.S.N. '75, School of Nursing

Judith Ann Maness M.H.A. '83,

Graduate Program in Health Administration

Allen William Wicken M.S. '74,

Graduate Program in Physical Therapy

Young alumni representatives:

Connie T. Chai '10, Kathryn Laidlaw '04,

James Pineda '05, M.B.A. '11, Danielle Horvitz Weiner '04

Faculty representative:

Michelle Connolly, Associate Professor of the Practice of Economics

Alexander Hartemink '94, Associate Professor of Computer Science,

Statistical Science, and Biology

Student representative:

William Hunt G '15

President, Graduate and Professional Student Council

Honorary members:

William E. King '61, A.M. '63, Ph.D. '70, Michael Schoenfeld '84,

Suzanne J. Wasiolek '76, M.H.A. '78, LL.M. '93,

Gerald L. Wilson B.D. '61, A.M. '68

Presidents, School and College Alumni Associations

David C. Hockett M.Div. '94, Th.M. '99, Divinity School

Lynne S. Kaye M.B.A. '82, Fuqua School of Business

Leslie Pearlman Jamka M.E.M. '99,

Nicholas School of the Environment

J. Michael Drozd '89, Ph.D. '97, Pratt School of Engineering

John S. DeGroot J.D. '90, School of Law

Dale R. Shaw '69, M.D. '73, School of Medicine

Joan M. Stanley B.S.N. '71, School of Nursing

Judith Ann Maness M.H.A. '83,

Graduate Program in Health Administration

Allen William Wicken M.S. '74,

Graduate Program in Physical Therapy

Duke
ALUMNI ASSOCIATION

ClassNotes

Want to be featured in Class Notes?

Check out www.dukemagazine.duke.edu for style tips and submission guidelines, or e-mail us at dukemag@duke.edu.

1940s

William P. Wilson '43, M.D. '47 received an honorary doctorate of divinity from the Carolina Graduate School of Divinity in May. The school's chair of pastoral care and counseling was named for him upon his retirement after 16 years of teaching. Wilson is a professor emeritus of psychiatry at Duke University Medical Center.

1950s

Charles C. Levergood Jr. '53 published *Weevil*, a fictionalized account of a Duke student who spends the summer of 1952 working on an oil rig.

1960s

John M. Keith Jr. '60 published *Canebrake Beach: A Novella and Four Short Stories*, a collection of fiction that explores interracial relationships in the South during the Jim Crow era and beyond.

O. Whitefield Broome Jr. '62 was named 2012 Outstanding Member of the Year by the Virginia Society of Certified Public Accountants (VSCPA). Broome is Kaulback Professor Emeritus of commerce and professor of law at the University of Virginia and has served on its faculty since 1967. He has served on the Virginia Board of Accountancy, the Board of Examiners of the American Institute of Certified Public Accountants, the National Association of State Boards of Accountancy, and the CPA Examination Review Board. He previously received the Z Society Distinguished Faculty Award at the University of Virginia and VSCPA's Outstanding Faculty Award.

'63 50th Reunion April 12-14, 2013

Stephen B. Coleman Jr. '63 published *The Navigator: A Perilous Passage, Evasion at Sea* after his retirement from real-estate brokerage. Coleman holds a Coast Guard master's license.

Arthur Marvin Quattlebaum '63 was recognized for his outstanding legal services by the 2012 *Chambers USA Guide*. Quattlebaum practices real-estate law in Greenville, S.C.

Ron L. Seckinger '63 is founder and editor of *Spymaniac.com*, an online guide to spy films. The site rates more than 500 films and includes articles, resources, quizzes, and other materials related to movies about espionage. Seckinger served as an analyst and senior executive at the CIA for 23 years and subsequently has worked as a consultant for the Department of Homeland Security and the FBI.

Philip Lader '66 received the 2011-12 Distinguished Alumni Award from the political science department. Lader was the U.S. ambassador to the United Kingdom from 1997 to 2001, served in President Clinton's cabinet, and was previously the White House deputy chief of staff. He is currently the non-executive chairman of the WPP Group and a senior adviser to Morgan Stanley.

Arthur J. "Randy" Ranson III '66 was included in *Florida Trend* magazine's Legal Elite for 2012. Ranson practices commercial and civil litigation in the Orlando, Fla., office of Shuffield Lowman.

Craig Scott Miller '67 was recognized by 2012 *Chambers USA Guide* as a leading real-estate lawyer in Ohio. He is the chair of the public law group at Ulmer & Berne in Cleveland.

Pamela N. Odell Price '67 was recognized in *Florida Trend* magazine's Legal Elite for 2012 and was named in *Florida Super Lawyers 2012*. Price focuses on wills, trusts, and estates for GrayRobinson in Orlando, Fla.

'68 45th Reunion April 12-14, 2013

Patrick D. Coleman '68 was named in *Florida Super Lawyers 2012* and recognized by 2012 *Chambers USA Guide*. Coleman is a defense attorney in employment and litigation in the Jacksonville, Fla., offices of GrayRobinson.

John A. Moffett Jr. '68 retired as a holding company president after more than 35 years in the pharmaceutical and biotechnology industries. He is now a biotechnology consultant.

Joseph H. Jarboe B.S.C.E. '69 was elected president of the Associated General Contractors of America in March. AGC represents 30,000 firms and is involved in all aspects of the construction business, helping to set industry standards and policies.

1970s

Larry Lawton J.D. '70 completed a mission with The Church of Jesus Christ of Latter-day Saints in Hong Kong. Lawton served as associate area legal counsel in the Asia area administrative office, assisting with real-estate issues for new church buildings, acquiring visas, and preparing agreements for humanitarian projects throughout Asia.

Thomas William Scrivner '70, M.A.T. '72 was named in 2012 *Chambers USA Guide* for his achievements in employment law. Scrivner is a partner in the Milwaukee office of Michael Best & Friedrich.

Read Class Notes online!

Go to dukemagazine.duke.edu to connect with your classmates and share your good news.

Christopher M. Dawson '71 published *We the People: Servants of Deception: Reconsidering Social Reality*. The book provides social commentary challenging conventional views of American democracy.

Cym H. Lowell J.D. '72 recently joined McDermott Will & Emery in the firm's Houston and Dallas offices. Lowell brings his transfer pricing and international taxation practice with him.

'73 40th Reunion April 12-14, 2013

Robert D. Peltz '73 was reappointed chairman of the Maritime Law Association's cruise line and passenger ship committee for the third straight term.

Glenn R. Reichardt '73 was named in *Washington, D.C., Super Lawyers 2012* in the field of securities litigation. He is a partner in the Washington office of K&L Gates.

Jon A. Sanford '74 published his first book, *Design for the Ages: Universal Design as a Rehabilitation Strategy*. It emphasizes how Universal Design can promote inclusivity and social equity.

Braxton DeGarmo '75 published his first novel, *The Militant Genome*, a medical thriller.

Cecil James Holliman '75 was elected president of the International Federation for Emergency Medicine. He also received the James D. Mills Award for Outstanding Contribution to Emergency Medicine from the American College of Emergency Physicians.

Allan R. Kelley '77 was recognized in *Florida Super Lawyers 2012* for his work in transportation and maritime law with Fowler White Burnett in Miami.

C. Allen Parker '77 was promoted to presiding partner at Cravath, Swaine & Moore in New York. Parker specializes in finance and banking and previously served on the board of trustees at Duke.

Thomas P. Rosicki '77 founded Sparkling Pointe Winery on the North Fork of Long Island, N.Y., in 2002. The winery's Brut Seduction '02 and Blanc de Noir '08 both were awarded 90 points by *Wine Enthusiast* magazine. He also manages a law firm with his wife, Cynthia.

'78 35th Reunion April 12-14, 2013

Beverly Anne Foster '78 was named chair of Mecklenburg County's domestic violence advisory board and volunteers with Mecklenburg Ministries.

Elizabeth Pryor Johnson '79 was recognized in *Florida Super Lawyers 2012* for her work in employment and labor law at Fowler White Burnett in Miami.

Derrick B. Mashore '79 joined Jones Lang LaSalle as managing director of the global commercial real-estate services company's mid-Atlantic tenant representation team. Moore previously founded Concordis Advisors, a commercial-real-estate-services company.

Barry Rossman '79 has been named in *Best Doctors in America* in urology for the 10th straight year. He is president of Urology Group of Princeton and medical director of the New Jersey Kidney Stone Center. He is also on the editorial staff of *The Urology Times*.

1980s

G. William Brown Jr. J.D. '80 was part of a team to receive an investment of \$50.4 million from the Shaw Group for the company NET Power, of which Brown is CEO. The investment will go toward developing and demonstrating the company's low-cost, emissions-free thermodynamic energy technology using a 25-megawatt system. Brown is a law professor at Duke.



Throughout Duke's history, the generosity of alumni, parents, and friends has shaped the university we know today. Your gift to Duke through a bequest intention can help build tomorrow's Duke.

A bequest intention can help advance new models of education and provide Duke's talented students, faculty, and medical practitioners new opportunities to make a meaningful difference for the world.

Your bequest can create a lasting legacy through support of scholarships, world-class teaching, and life-changing research. Let us help you define your legacy.

Duke University Office of Gift Planning

Box 90600, Durham, NC 27708

Phone (919) 681-0464

Email gift.planning@dev.duke.edu

Explore gift plans at giving.duke.edu/giftplanning

DAA AWARDS

CHARLES A. DUKES AWARDS

Established in 1982, the award is named after the first director of the Duke Alumni Association, who built his reputation on his volunteer leadership. This year's winners are:



Les Todd



Courtesy Lewis Frederick Sutherland '73 and Barbara Hoover Sutherland '75



Les Todd



Courtesy Mary H. Dawson '53



Courtesy Jerry C. Wilkinson B.S.E. '67



Courtesy Bill and Kristi Geary

Ann Pelham '74; Lewis Frederick Sutherland '73 and Barbara Hoover Sutherland '75; Ruth Wade Ross '68; Mary H. Dawson '53; Jerry C. Wilkinson B.S.E. '67; and Duke parents Bill and Kristi Geary.

FOREVER DUKE AWARDS

The Forever Duke Award was established in 2009 to recognize alumni who go above and beyond "the call of duty" in service to Duke. This year's winners are:

Meredith W. Allin B.S.E. '05; Tricia D. McKitty '92, J.D./LL.M. '95; Tiffany Montgomery Bishop '98; Julie E. Ehlers '85; Stephen K. Breckenridge '83; Jonathan P. Cardona M.B.A. '00; Newton C. Taylor LL.B. '60; Rosie Canizares '04, D.P.T. '07; Thomas Brodsky '73; Nancy Mattwell Hegarty '83; Paul W. Kim '97; Gisela Rose-Shortridge '76; William E. Hunt '84; Paul M. Honigberg '77; Kenneth M. Myers '70; Alyssa Fanelli Benza B.S.E. '02; Ellen Bers Johnson '68; Joanne Robertson '85, M.B.A. '87; C. Donald Shlimbaum '70; Sheree Cooper Levy '89; and Jimmy K. Grewal '99.

Alma Mater Ally

Bovender selected for Distinguished Alumni Award.

Jack Bovender '67, M.H.A. '69 grew up in King, North Carolina, a small rural town near Winston-Salem "where everybody was like everybody else." When he arrived at Duke in the fall of 1963, Bovender was in for a culture shock. He encountered people who had attended prestigious private schools, courses that opened his eyes to the arts and humanities, and classmates from a wide variety of backgrounds and experiences, including Northerners, "who didn't sound like I did."

It was a turning point in Bovender's life. He embraced the array of opportunities available to him, joining a fraternity and majoring in psychology, which led to a student job in the psychiatric unit of Duke Hospital. By the time he graduated, Bovender says, "I learned what a true liberal-arts education meant. I hadn't just been prepared for a vocation; I saw the world in a very different way than when I entered."



Courtesy HCA Healthcare

Bovender: Grateful for Duke's influence.

After graduating, he earned a graduate degree in hospital administration and married Barbara Tuttle, a nurse he'd known since grammar school. A stint as a lieutenant with the U.S. Navy was followed by a successful career in the health-care industry. Most of his career was spent with the Nashville-based Hospital Corporation of America (HCA), one of the largest private providers of health-care services. He retired in 2009 as its chairman and CEO.

Along the way, Bovender never stopped repaying Duke for the opportunities it afforded him and his family (son Richard earned an M.B.A. from the Fuqua School of Business in 2008). He has served on both the Fuqua and divinity school boards of visitors and the executive committee of the Duke Annual Fund and has been a member of Duke's board of trustees since 2007.

The Bovenders have been generous financial supporters of Duke as well. They've made a \$25 million bequest to support Fuqua, Trinity College of Arts & Sciences, and the School of Nursing. During the Financial Aid Initiative, they

"I learned what a true liberal-arts education meant. I hadn't just been prepared for a vocation; I saw the world in a very different way than when I entered."

gave \$1 million to Fuqua to establish a scholarship program for minority students in the school's Health Sector Management program.

Most recently, they established a \$1 million scholarship to encourage Duke's diversity efforts, given in honor of five of Bovender's 1967 classmates who were the first undergraduates to integrate the university.

As part of Founders' Day, Bovender will receive the Distinguished Alumni Award, the highest honor bestowed by the Duke Alumni Association. With his trademark humility and grace, Bovender says that "I'm sure my fraternity brothers will be amazed this happened to me, and if I look at my undergraduate transcripts, I'm amazed, too. But it's a great honor. I'm very humbled and obviously very honored. I'm sure there are people who deserve this a lot more than I do, but none that appreciates it more than I do."

—Bridget Booher

Douglas A. Jacoby '80 published a new book, *The Days of the Week of the Bible*.

Bruce Ruzinsky '80, J.D. '83 was named in *2011 Chambers U.S. Guide*. Ruzinsky was ranked for his work in bankruptcy and restructuring at Jackson Walker in Texas.

David H. Nikkel '81 received the 2012 UNC Board of Governors' Award for Teaching Excellence. He is an associate professor of religion and chair of the department of philosophy and religion at UNC-Pembroke. The award is the highest given by the UNC system and comes with a stipend and bronze medallion.

Rita A. Sheffey Ph.D. '82 was re-elected to serve on the executive committee of the State Bar of Georgia. Sheffey, a partner at Hunton & Williams in Atlanta, focuses on environmental, patent and trademark infringement, and product liability litigation.

Mary Kathryn Swann-Trainor '82 published two novels in a trilogy: *Cerulean Wake* and *Cerulean Sunrise*.

'83 30th Reunion April 12-14, 2013

Edwin J. Brassel '83 was promoted to senior vice president of marketing at DIRECTV in Los Angeles.

Gregg A. Harris '83 founded TEMP Expertise in Tualatin, Ore. The new consultancy focuses on emerging medical technology and early-stage businesses and offers market analysis, tradeshow strategy, and Web design, as well as support for preclinical and clinical studies, product testing and positioning, and staff and customer training.

Philip M. Ebinger '84 was named an executive vice president of the Atlanta Hawks. Ebinger has been with the men's basketball organization since 2004 and previously served as senior vice president and CFO.

Thomas Scott Wilkinson '85, J.D. '88 was named an executive vice president of the Atlanta Hawks men's basketball organization. Wilkinson previously served as senior vice president, chief legal officer, and assistant general manager. He will continue to manage all legal matters for the team.

Paul Whitlock Cobb Jr. '87 joined Pacific Architects & Engineers in Arlington, Va., as senior vice president and general counsel.

Robin Green Harris '87, J.D. '93 was named executive director of the Council of Ivy League Presidents. Harris previously served as senior counsel and co-chair of Ice Miller's collegiate sports practice and as the associate chief of staff for Division I at the NCAA national office.

Jeffrey A. Levitt '87 was named CEO of Stonebridge Capital in New Jersey.

ROOMMATES REUNITED

Michael Kates '80 and William Cohan '81



Unforgettable: Kates, left, and Cohan at the summit of Kala Patthar.

Last October, **Michael Kates '80** called **William Cohan '81** with a tempting offer. Kates had found a great deal with a tour-company expedition to Mount Everest's south base camp in Nepal. Was Cohan in?

Although the Duke roommates had traveled together throughout Europe after Kates' graduation and stayed in regular touch during the three decades since, their lives had taken them in different directions. Kates became a radiologist in Philadelphia; Cohan went into investment banking and then became an author and journalist in New York. Yet the prospect of reconnecting with each other for a once-in-a-lifetime journey to the world's highest mountain eclipsed any initial fear and trepidation.

Still, both were well aware of the risks involved. Crippling blisters. Altitude sickness. Death. (Cohan had been on a National Outdoor Leadership School trip in Washington State led by Scott Fischer, the American climber and guide who died descending the summit of Mount Everest in 1996.)

As it turned out, both Kates and Cohan were up to the challenge and made it to Everest base camp, at nearly 17,600 feet, without incident. The next day, they went even higher: to the summit of Kala Patthar at 18,400 feet, which provided a stunning view of Everest's peak. During the three-week trek, they stopped at Buddhist shrines and monasteries, primitive tea houses heated by burning yak dung, and memorials to hikers who had died on Everest—including that of Fischer, whose body remains on the mountain.

Both men say the trip profoundly changed them. "Even pictures don't communicate how extraordinary the experience was," says Cohan. "It was physically and emotionally demanding but also spiritually and culturally fascinating. And sharing it with my Duke roommate made it even more special."

—Bridget Booher

NASHER MUSEUM OF ART AT DUKE UNIVERSITY

Collecting Matisse and Modern Masters

THE CONE SISTERS OF BALTIMORE

November 4, 2012 – February 10, 2013



LEFT: Henri Matisse, *Striped Robe, Fruit, and Anemones*, 1940. Oil on canvas, 21 1/2 x 25 1/2 inches.
(54.3 x 64.8 cm) BMA 1950.263 ©2011 Succession H. Matisse/Artists Rights Society (ARS), New York.

“...a fascinating look at the Cones’ evolving relationships with Picasso and Matisse...”

— *The New York Times*

Ticket pre-sales begin September 24th at 919-684-5135, or nasher.duke.edu

Nasher Museum Members receive two free Matisse tickets per day.



Lead corporate support is provided by Wells Fargo.
Lead foundation support is provided by the Crow Creek Foundation.

Joel Norwood '87 was elected to serve as the chairman of the South Carolina Real Estate Appraisers Board.

'88 25th Reunion April 12-14, 2013

Edward Kelly '88 was named regional counsel (Asia) for Nike Inc. in Hong Kong. He previously led the intellectual-property practice at two of Thailand's largest law firms, Siam Premier and Tilke & Gibbins, and founded a leading private commercial investigation firm, LCP Asia, active throughout Southeast Asia. He will continue to serve on the expert advisory board of SISFA USA, a charitable foundation he cofounded, focusing on anti-human trafficking in Asia. For his work in this field, the Boston University School of Law conferred upon him the Victor J. Garo Award for Public and Humanitarian Service in 2009.

1990s

Troy Fiesinger '91 was named president of the Texas Academy of Family Physicians and will represent Texas family physicians during the 2013 legislative session. He serves on the faculty of the Memorial Family Medicine residency program in Sugar Land, Texas.

John H. Goselin II '91 joined Duane Morris in Atlanta as a financial-services litigation partner in the law firm's trial practice group.

David Sager J.D. '91 joined Lowenstein Sandler in Roseland, N.J., as a partner. He is known for his work in franchising and distribution law.

Lisa Klink '92 published her first novel, *The Dead Man: Slaves to Evil*.

Elizabeth Anne Weiss '92 created and runs the ABC Family TV show *Switched at Birth*.

'93 20th Reunion April 12-14, 2013

Debra M. Parisi B.S.E. '93 was listed as a New York Super Doctor in *The New York Times Magazine*.



Courtesy of Gilt Groupe

for the fourth year in a row. She is an orthopedic surgeon at Beth Israel Medical Center in New York.

Stacie I. Strong J.D. '94 was selected as the 2012-13 Supreme Court Fellow assigned to the Federal Judicial Center. Strong is an associate professor of law at the University of Missouri School of Law.

Justin Brett Busby '95 was appointed a Justice of the Texas Court of Appeals, 14th District, in

'95

Tyler R. Thoreson '95 was promoted to vice president of editorial, creative, and customer experience at Gilt Groupe/Park & Bond in New York. Previously, Thoreson was the executive editor of Men.Style.com, formerly the online home of *GQ* and *Details*.



IRON DUKES

Building Champions




Support Duke student-athletes by becoming a member of the Iron Dukes.

Memberships start at \$100 and include a number of great benefits, such as priority seating and parking, invitations to special Iron Dukes events, and a subscription to *Go Duke the Magazine*.

The Iron Dukes
116 Cameron Indoor Stadium
Box 90542
Durham, NC 27708-0542
(919) 613-7575
IronDukes.net





Follow us at [facebook.com/theirondukes](https://www.facebook.com/theirondukes)

Follow us at twitter.com/theirondukes

Find us on [LinkedIn](#)

Houston. He will stand for election to a full six-year term in November 2012. Busby, an experienced appellate litigator who clerked at the U.S. Supreme Court, was previously a partner at Bracewell & Giuliani. He also served as an adjunct professor at the University of Texas Law School, where he co-taught the U.S. Supreme Court litigation clinic.

Kevin Fitzgerald M.B.A. '95 was promoted to vice president of sales for the midmarket at PROS in Houston.

Andrew M. Frankenberger '95 won the pot-limit at the Hold 'Em tournament at the World Series of Poker.

Adam J. Eisenberg '97 was named head of UK Investment Advisory at Barclays.

William L. Granville III '97 was elected to the board of directors of the National Association of Insurance and Financial Advisors. Granville played professional football for the Cincinnati Bengals before beginning his career in financial service with Northwestern Mutual, later forming Granville Financial Group in 2010.

Heather A. Okvat '97 received a Ph.D. in psychology from Arizona State University in 2012 and is a postdoctoral fellow in behavioral medicine at the VA Boston Healthcare System.

'98 20th Reunion April 12-14, 2013

Gregory Lakin '98 became an assistant professor of plastic surgery at Case Western Reserve University School of Medicine. He also is the head of the craniofacial program at Rainbow Babies & Children's Hospital in Cleveland. He completed his craniofacial surgery fellowship at UCLA.

Junko Takeda '98 received the Daniel Patrick Moynihan Award from the Maxwell School of Syracuse University for her research, teaching, and service. Takeda is a French historian.

Monique N. Moultrie '99 was named an assistant professor of religious studies at Georgia State University. Her research explores sexual ethics, religion, and race.

MARRIAGES & COMMITMENTS

Caroline Blitzer '93 to Craig Phillips on May 19, 2012. Residence: New York...**Debra M. Parisi** B.S.E. '93 to Douglas Han on June 28, 2011. Residence: Cold Spring, N.Y....**Mary Elizabeth Burke** '98 to Kannan Sankaran on Feb. 25, 2012. Residence: Washington, D.C.

BIRTHS & ADOPTIONS

Twins, Bryce Skylar and Camden Chase, to **Debra Daumit Klingsberg** '92 and Jordan L. Klingsberg on May 24, 2012...Evelyn Kay to **Scott H. Kollins** '92 and **Katharine White Kollins** M.B.A. '09, M.E.M. '09 on July 3, 2012...Jackson Jin-Soo Han to **Debra M. Parisi** B.S.E. '93 and Douglas Han on March 29, 2012...Benjamin Karam to **Suvarna "Sona" Gupta Wuchenich** '94 and Jeffrey Wuchenich on Dec. 15, 2011...Colbie Anne to **Brooke H. Beacham** B.S.E. '95 and Jenny Beacham on July 1, 2012...Lillian May to **Caroline Nasrallah Belk** '95, J.D. '04 and Robert C. Belk on Feb. 2, 2012...Dashiell Pierce Denzer-Sturgeon to **Alyssa J. Denzer** '95 and David M. Sturgeon on July 24, 2012...Mackenzie Corinne Frost to **Jeanette**

MEET KRISTINE YOUNG THE NEW FACE OF BUSINESS AND THE ENVIRONMENT



As a sustainability manager at OCEAN SPRAY, Kristine Young MEM'09 looks for ways to make cranberry products using less water and less energy. It's good for the environment and good for the bottom line.

She brings key skills in land management and life cycle analysis to the job. Where did she learn these skills?

THE NICHOLAS SCHOOL OF THE ENVIRONMENT AT DUKE.

Duke 
NICHOLAS SCHOOL OF THE
ENVIRONMENT

forging a sustainable future

FIND OUT MORE



[nicholas.duke.edu/
alumni/young](http://nicholas.duke.edu/alumni/young)

Read Class Notes online!

Go to dukemagazine.duke.edu to connect with your classmates and share your good news.

McCracken '95 and Jamie Frost on Nov. 16, 2011... Brandon Start to **Jamie Smith RoA** '95 and Julian RoA on Oct. 2, 2011... Charlie James to **Mary Poole Clinch** '96 and Jed Clinch on June 12, 2012... Nicholas Nathan to **Adam Eisenberg** '99 and Agnieszka Eisenberg on May 23, 2011... Twins, Brayden Peter and Keegan John, to **Michael T. McCormack** '97 and Elizabeth E. McCormack on June 2, 2012... Shreyas Cole Batra to **Kelly Evans** '98 and Maneesh Batra on June 1, 2012... Caroline Eve to **Robert J. Gallagher Jr.** '98, J.D. '04 and **Lauren F. McLoughlin Gallagher** '98 on May 1, 2012... Dylan Elijah to **Eric M. Givner** '98 and Laura Givner on May 29, 2012... Olivia Gabrielle to **Daniel E. Kaufman** '98 and **Julia Easton Kaufman** '98 on June 11, 2012... Charlotte Avery to **Jonathan A. Feifs** B.S.E. '99 and Stephanie L. Feifs on June 18, 2012... Alyssa Claire Miller to **Joseph A. Miller** '99 and Lisa Kelley on May 2, 2012.

2000s

Kerry Reichs M.P.P. '00, J.D. '00 published her third novel, *What You Wish For*, a story of five families at a crossroads, each following a different path to happiness.

Randy J. Garcia '01 was named the assistant director of alumni giving at Duke. He retired as an Army commander after 23 years of service.

Melissa Groisman Steinfeld '01 was invited by the Colombian government to present the requirements of the U.S.-Colombia Trade Promotion Agreement. She will help advise manufacturers on how to meet the necessary requirements to enter the U.S. market. Steinfeld is a lawyer in the Miami office of GrayRobinson.

Meredith Watson '01 was named the major-gifts officer for the National Aquarium in Baltimore.

'03 5th Reunion April 12-14, 2013

Michael P. Barham '03 received a doctor of ministry from Church Divinity School of the Pacific in May. He is an associate rector at The Parish of St. Clement, an Episcopal church in Honolulu.

Sarah N. Peden '03 joined Hennepin County Medical Center in Minneapolis and Pediatric Consultation Specialists in Plymouth, Minn., as a licensed psychologist. She received her Ph.D. in

clinical psychology from Auburn University in December 2010.

Douglas Ross '03 joined Cleantech Law Partners as head of the firm's biogas practice group. He will remain in Washington, while continuing to work with renewable-energy project developers and investors across the country.

Vincent Asaro '04, J.D. '09, LL.M. '12 was named managing director of Rock Creek Capital in New York.

Sabrina Beth Magid '04 was named in the 40 Under 40 class of rising stars by the Business Council of Westchester. She practices "whole body dentistry" as a partner at Advanced Dentistry of Westchester.

Anne B. Walker '04 published a romance novel, *The Booby Trap*, about a fictional Harvard Ph.D. candidate, Bambi Benson.

J. Whitney Hazel Gerling '05 received a J.D. from George Mason University in 2012, complementing her M.S. in health systems administration from Georgetown University in 2007. She founded Peace for Patients, an advocacy organization that addresses the complex needs of families with a child facing terminal illness.

Brian Greene '05 is the founder and president of Blue Greene, a private online job-referral community that is free for former college athletes from top academic institutions. Former athletes can review open job opportunities with the firm's partnering companies. Blue Greene has assisted former athletes from institutions such as Duke, Harvard, and Yale.

Alexander A. Perez '05 is running the 2012 New York City Marathon to raise funds for Parkinson's research.

Jennifer L. Woodruff Tait '05 received the Saddlebag Selection Award from the United Methodist Church for her book *The Poisoned Chalice*. The award recognizes the best book on the church's history, theology, or polity.

Jessica B. West '05 was named an associate at Smith, Anderson, Blount, Dorsett, Mitchell & Jernigan in Raleigh, where she focuses on public and private company financing and private equity.

Marc L. Roark LL.M. '06 was named an associate professor and director of the office of academic achievement at the new Savannah Law School in Savannah, Ga. He previously taught at the University of La Verne, University of Missouri-Columbia, and University of Tulsa.

Radha Krishna Sanka M.D. '06 joined the Eye Centers of Racine and Kenosha in Wisconsin. Sanka completed his ophthalmology residency at Emory University School of Medicine and a fellowship in cornea, external disease, and refractive surgery at the University of Illinois Eye and Ear Infirmary in Chicago.

'08 5th Reunion April 12-14, 2013

Brinton J.W. Markle '08 published a video of an Alaskan back-country skiing trip that was entered in a GoPro/Salamon/Mammut video competition.

WHO MADE YOUR BED?

The ultimate adjustable bed is **MADE IN VIRGINIA** with a remote-controlled motor, a heavy-duty aluminum frame, and a variety of headboard and premium mattresses. Sizes: Twin, Full, Queen, Split, King and King. Call 866-853-2337 for a brochure, or visit us online at AssuredComfortBed.com.

ASSURED COMFORT

Available at: **GRINERON Interiors & Rugs, LLC**
 10044 Yonkers Rd. Raleigh 919.754.9754

P. Michael McGroddy Jr. B.S.E. '09, M.E.G.M. '10 was part of a team to receive an investment of \$50.4 million from the Shaw Group for the company NET Power. The investment will go toward developing and demonstrating the company's low-cost, emissions-free thermodynamic energy technology, using a 25-megawatt system.

Katherine A. Sultenfuss '09 received a J.D. from University of Virginia School of Law. She is now an associate at Trenam Kemker in Tampa, Fla.

J. Robert Walker IV J.D. '09 was part of a team to receive an investment of \$50.4 million from the Shaw Group for the company NET Power. The investment will go toward developing and demonstrating the company's low-cost, emissions-free thermodynamic energy technology, using a 25-megawatt system.

MARRIAGES & COMMITMENTS

Christopher Brandt '00 to Sarah Kotula on June 9, 2012. Residence: Baltimore...**Melissa Groisman** B.S.E. '01 to Benjamin Steinfeld on April 1, 2012. Residence: Aventura, Fla....**Susan Michelich** '01 to Joseph Peter on May 26, 2012. Residence: Washington....**Michele Keyerleber** '04 to Ryan Fitzgerald on June 30, 2012. Residence: Westborough, Mass....**Wesley Brooks** '05 to Megan Anderson on June 22, 2012. Residence: Monmouth Junction, N.J....**Jennifer Whitney Hazel Little** '05 to Brian J. Gerling on May 5, 2012. Residence: Potomac Falls, Va....**Matthew Ryan Emery** '07 to **Lauren Nicole Durr** M.Div. '11 on July 21, 2012. Residence: Winston-Salem....**Joseph Martin Eble**

M.D. '08 to Jennifer Lannon on May 19, 2012. Residence: Rochester, Minn....**Erin Elizabeth Dunnigan** H '09 to David W. Rowe on Sept. 3, 2011. Residence: Dallas....**Lauren Maisel** '09 to Paul Goldsmith on May 27, 2012. Residence: San Francisco....**Joel Ribnick** '09 to Tamar Pentelnik on May 20, 2012. Residence: St. Louis Park, Minn.

BIRTHS & ADOPTIONS

Miles Josephine Chaney Morvant to **Shannon K. Chaney** '00 and Russell Morvant on June 2, 2012....Peter Michael to **Nancy Kennedy Major** '00 and Samuel M. Major on June 29, 2012....John Harris to **Susan Schell Matter** '00 and Drew Matter on July 3, 2012....Hannah Avni to **Aliza Goldman Schneller** '00 and Matthew Schneller on July 6, 2012....Zoey Katherine Ray to **Alison E. Niebanck** '01, M.D. '05 and **Robin Ray** M.D. '05 on April 9, 2012....Coleman Robert to **Margaret Watson Carr** '02 and Adam Carr on May 21, 2012....Abigail Rose to **Harold M. Gutmann** '02 and **Laura DiGiovanni Gutmann** '02 on July 24, 2012....Patricio Krishna Mudunuri to **Alice "Kathy" Pazmino-Mudunuri** '02, M.B.A. '11 and **Shashi K. Mudunuri** '03, M.B.A. '11 on June 16, 2012....Lucy Meredith to **Dana Howle Sample** '02 and **Ryan G. Sample** '02 on May 31, 2012....Colin Francis to **Deirdre Fleming Shea** '03 and Frank Shea on Jan. 4, 2012....Shai to **Ari S. Medoff** '03 and Diana B. Medoff on April 14, 2011....Sotir Nicholas to **Keri-Ann O'Leary Tochka** '04 and Nicholas Tochka on April 4, 2012....Benjamin Oskar Udry to **Maud Alhanko** LL.M. '05 and Daniel Udry on July 16, 2012....James Andrew to **Amanda Earp Diekman** '05,

M.Div. '10 and **Brian Diekman** '05, M.Div. '10 on July 22, 2012....Virginia Gray to **Julianna Swanson Peacock** '05 and Ben Peacock on March 9, 2012....Elizabeth Beatrice to **Jennifer L. Woodruff Tait** Ph.D. '05 and **Edwin R. Woodruff Tait** A.M. '01, Ph.D. '05 on May 31, 2012....Rachel Ann to **Steven M. Frenk** A.M. '07, Ph.D. '11 and Rebecca Frenk on June 12, 2012....Lucile Virginia to **Lyle Cole Ross** M.B.A. '08 and Lizzie B. Ross on April 30, 2012....Evelyn Kay to **Katharine White Kollins** M.B.A. '09, M.E.M. '09 and **Scott H. Kollins** '92 on July 3, 2012.

2010s

Megan Cattau '10 received a Fulbright Scholarship to Indonesia, focusing on ecology.

David A. Freed B.S.E. '10 was part of a team to receive an investment of \$50.4 million from the Shaw Group for the company NET Power. The investment will go toward developing and demonstrating the company's low-cost, emissions-free thermodynamic energy technology, using a 25-megawatt system.

Harold L. Mann M.B.A. '12 was appointed to the University of Southern California's Board of Governors. He works for Delta Air Lines in Atlanta as a commercial strategy M.B.A. associate.

MARRIAGES & COMMITMENTS

Lauren Nicole Durr M.Div. '11 to **Matthew Ryan Emery** '07 on July 21, 2012. Residence: Winston-Salem....**Anthony Lawrence**

A Tradition of Excellence

We are your place for officially licensed
Duke merchandise.

With thousands of products to choose from,
we offer the largest selection of everything Duke.
Shop with us 24/7 via our online catalog and
place your order securely anytime, day or night.

Browse our online catalog @
www.shopdukestores.duke.edu

016 West Union Building | Box 90850
Durham, NC 27708-0850

One Team. One Common Goal.
To Provide Quality Service & Products to the Duke University Community.



Sanderson '11 to Kennedy Catron on Sept. 11, 2011. Residence: Seattle.

BIRTHS & ADOPTIONS

Elliot Nordgaard Danell to **Niklas E.G. Danell** M.B.A. '10 and Sara Nordgaard on April 11, 2011.

INMEMORIAM

George W. Clark Jr. B.S.M.I. '38 of Birmingham, Miss., on May 8, 2012. During World War II he was stationed with the Navy in the Philippines, where he repaired war-damaged aircraft. He retired in Detroit in 1980 after working with General Motors Overseas Operations for 42 years. He is survived by two sons, a daughter, six grandchildren, and three great-grandchildren.

Robert M. Koger '38 of Tarpon Springs, Fla., on March 22, 2012. A member of the Duke boxing team, he was a captain in the Marine Corps during World War II. He worked with his father in the food-brokerage business, eventually retiring from Koger & Cone. He dedicated more than 50 years of civic service to the Charleston Lions Club. He is survived by his wife, Ruth; two sons; three grandchildren; and a great-grandchild.

Roberta Jean Longworth Gunckel '39 of Bridgewater, N.J., on April 13, 2012. After graduating from Miami University of Ohio with a degree in elementary education, she taught first grade for 23 years in the Highland Park and Bridgewater-Raritan school districts in New Jersey. She is survived by a daughter, a son, two grandchildren, and four great-grandchildren.

Mary Gene Boyle Brading '40 of Pineville, N.C., on April 6, 2012. She was the former president of W.B. Boyle Co. and a real-estate broker. A member of Trinity United Methodist Church, she helped organize St. John United Methodist and Aldersgate churches. She served as president of the Gideons Women's Auxiliary, Duke's Woman's College Alumnae Association, and the League of Women Voters. She is survived by a son, **Stanley G. Brading Jr.** '75; a daughter; a brother; 13 grandchildren; and 17 great-grandchildren.

Jean T. Gross MacLachlan '41 of Bingham Farms, Mich., on Jan. 19, 2012. She was a member of Delta Delta Delta and the Chapel Choir while at Duke. Survivors include a nephew, **Robert D. Gross** '72.

John Vennema Jr. '41 of Kalispell, Mont., on April 19, 2012. He was an active member of Manito Presbyterian Church in Spokane, Wash., serving as an elder for many years. He and his wife moved to Holland, Mich., in 1989, where he belonged to Rotary. Later, he relocated to Montana. He is survived by three children, 10 grandchildren, and eight great-grandchildren.

Murray F. Rose B.S.M.E. '42 of Ashburn, Va., on March 15, 2012. A Marine Corps veteran, he fought in the Battle of Guadalcanal and was sent to Japan when World War II ended; later he participated in the Inchon landings in the Korean War. He had a 20-year career as a civil engineer with the Defense Supply Agency in Alexandria. He is survived by his wife, **Barbara Field Rose** '45; two daughters,

including **Patricia R. Guyette** '68; and a granddaughter.

Frank R. Buonocore '43, J.D. '48 of Torrington, Conn., on March 26, 2012. He was a gunnery officer aboard the destroyer USS *Ellis* during World War II and later began a private law practice in Torrington. After a stint as a prosecuting attorney, he finished his career in administration in the state court's criminal division, retiring in 1984. He was a communicant of St. Peter Church and had a long association with the YMCA. His retirement years were spent golfing and travelling. He is survived by two sons, a daughter, and five grandchildren.

Robert W. Curry B.S.M. '43, M.D. '43 of Safety Harbor, Fla., on April 2, 2012. He spent two years as a lieutenant and medical officer in the Army during World War II and founded a radiology group practice, Curry, Harding, George & Eliscu. He served as the president of the Orange County (Fla.) Medical Society, a delegate of the Florida Medical Association, and a diplomat of the American Board of Radiology. He was active in his local Methodist church. He is survived by four sons, including **R. Whit Curry Jr.** M.D. '71; eight grandchildren; and 10 great-grandchildren.

Clyde C. Eskridge Jr. '43 of Raleigh, on March 27, 2012. He served as a staff sergeant in the Army Air Corps and was a decorated gunner during World War II, flying 30 missions over Germany and France. He returned to his hometown of Shelby, N.C., where he worked with Dover Textile Group until his retirement. He served as treasurer of Central United Methodist Church and was a lifelong member of the Hoey Bible Class. He is survived by a daughter, a son, a brother, a sister, five grandchildren, and three great-grandchildren.

Raymond C. Groll Jr. '43 of Cape Coral, Fla., on July 4, 2010. He dedicated 27 years of his life to the New York Police Department and retired as a sergeant after serving in both the Harbor Precinct and the 23rd Precinct. He was a member of Beta Theta Pi at Duke and was a member of the Merchant Marine during World War II. He is survived by his wife, Beth, and a son.

Helen Chapman Hill '43 of Franklin, N.C., on June 17, 2011. She was an artist skilled in upholstery, ceramics, pottery, sculpting, cutting and faceting gemstones, weaving, stained-glass work, watercolor painting, and gardening. She was also a professional designer of women's and children's clothes for many years. She is survived by two sons, two grandchildren, and four great-grandchildren.

Stephen R. Keister '43 of Erie, Pa., on April 6, 2012. He practiced medicine in Erie from 1950 until his retirement in 1991, the first in that area to practice rheumatology. He was one of the founding members of the Pennsylvania Society of Internal Medicine, and he cofounded the Northwestern Pennsylvania Lupus Society and the Pennsylvania Arthritis Foundation. He was named Physician of the Year by the Arthritis Foundation in 1992. He is survived by a daughter, a son, two stepdaughters, a stepson, two grandchildren, and two great-grandchildren.

William C. Kennedy '43 of Mount Dora, Fla., on Feb. 13, 2012. He spent more than 20 years as a soldier, first as a Marine in World War II, and later as an Army officer. He was a ham radio operator.



Durham's Favorite Destination

Washington Duke Inn & Golf Club

3001 CAMERON BOULEVARD, DURHAM, NC 27705
800.493.3853 919.490.0999 WASHINGTONDUKEINN.COM

Follow us on Facebook and Twitter

He is survived by three sons, six grandchildren, and seven great-grandchildren.

William H. "Harry" Muller Jr. M.D. '43 of Irvington, Va., on April 19, 2012. An Army veteran, he held a named professorship and was chair of the surgery department at the University of Virginia School of Medicine for 27 years. During this time, he chaired the committee to build the new University Hospital, which was dedicated in 1989. He was named one of the 10 Outstanding Young Men of the United States by the Junior Chamber of Commerce in 1952. He received many other awards, including awards from Tulane University, the McCallie School, and the University of Virginia, as well as Duke's Distinguished Alumnus Award. A member of the Society of Scholars of the Johns Hopkins University, he received honorary degrees from The Citadel and The Medical University of South Carolina. He lectured widely in the U.S. and abroad, served numerous visiting professorships, and wrote more than 160 scientific papers, book chapters, and books. He was the first surgeon to replace a diseased aortic valve with a prosthetic one, and he developed the pulmonary artery banding procedure for infants and children with certain types of congenital heart disease. For 13 years, he was on the Duke board of trustees and its executive committee. He is survived by his wife of 66 years, Hildwin; two sons; a daughter; nine grandchildren; and four great-grandchildren.

George N. Beer B.S.M.E. '44 of Brighton, N.Y., on April 8, 2012. He served during World War II as a lieutenant in the Navy, after which he worked in Rochester as an industrial engineer. He was an avid skier, sailor, and woodcarver. He is survived by his wife, Mary Lee; two daughters; a brother; eight grandchildren; and two great-grandsons.

Eunice F. Minner Keim '44 of Lancaster, Pa., on April 13, 2012. A teacher at Catasauqua High School in Pennsylvania's Lehigh Valley, she was president of Trinity Lutheran Church's council, as well as of the Camp Hill Women's Club. She is survived by a daughter, a son, a brother, seven grandchildren, and two great-grandchildren.

Anna J. McDermott '44 of Alexandria, Va., on April 7, 2012. She worked for the U.S. Department of Labor as an economist. She was an active member of several social organizations, including AAUW, the Huguenot Society, Daughters of the American Revolution, the National Society of Colonial Dames, and Westminster Presbyterian Church of Alexandria. Survivors include her nephew, **James R. Meier** '85, M.B.A. '87.

Georgia A. Rauschenberg Spieth '44 of West Hartford, Conn., on April 4, 2012. A member of Asylum Hill Congregational Church, she was active in the Seedling Garden Club, the Town and County Club, Avery Heights, Immanuel House, and the Women's Exchange. She was a docent at Noah Webster House and knit blankets for charity. She is survived by two daughters, four grandchildren, and two great-grandsons.

Emily N. Mathews Finnell '45 of Fort Worth, Texas, on April 30, 2012. At Duke, she graduated Phi Beta Kappa and served as president of Kappa Delta. She moved to Lubbock, Texas, where she taught Sunday school for 25 years. She also served on the council of the Lubbock Woman's Club. Survivors include a son, two daughters, six grandchildren, and eight great-grandchildren.

Virginia L. Moore Hawn '45 of Wheat Ridge, Colo., on May 6, 2012. After majoring in education, she taught kindergarten. An oil and pastel artist, she was a past president of the Wheat Ridge Art League. She volunteered at a local elementary-school literacy program, the Denver History Museum, Meals on Wheels, the Arvada Center for the Performing Arts, and the Astor House Museum. She is survived by four children and five grandchildren.

Kemp C. Honeycutt Jr. '45 of Staunton, Va., on May 11, 2011. He served in the Navy during World War II and went on to work as a salesman for Broyhill Furniture for many years. He is survived by his wife, Deb; two daughters; a son; and a sister.

Edward C. Suhling '45 of Lynchburg, Va., on Nov. 28, 2010. He served in the Marine Corps during World War II. He ran his own small business, Suh Distributing Company, for many years and served as director of Central Fidelity Bank. He was president of the Lynchburg Kiwanis Club, Scoutmaster of a Boy Scout troop, and senior warden of St. John's Church. He is survived by his wife, Margieanne; three daughters; a son; a sister; 12 grandchildren; and 11 great-grandchildren.

Louis O. Hutson Jr. '46 of Daly City, Calif., on April 21, 2011. He served in both the Navy and Army and retired from the latter as a captain.

Passie O. Saperstein Jones '46, A.M. '47 of Atlanta, on May 7, 2012. She worked at Emory University early in her career, then at the Georgia Bureau of Investigation's state crime lab, and later helped establish the Missing Children's Program.

She was an avid volunteer in the Atlanta community. She is survived by three daughters and seven grandchildren.

Julia "Judy" Wirt Teasley R.N. '46, B.S.N. '48 of Williamsburg, Va., on April 1, 2012. She was a member of Daughters of the American Revolution. She is survived by her husband, **Jack L. Teasley** M.D. '47; two sons, including **David G. Teasley** M.D. '79; a daughter; six grandchildren; and two great-grandchildren.

Granville M. Semmes II '47 of New Orleans, on March 30, 2012. After Duke, he joined the Navy and later moved to New Orleans, where he worked as an account executive at WWL-TV for more than 30 years. He founded 1-800-Flowers Inc. and studied gemology, becoming a fellow of the Gemological Institute of Great Britain, a gem appraiser, and master gem cutter. He is survived by his wife, Jane; six sons; two daughters; 18 grandchildren; and four great-grandchildren.

Thomas C. Shuler Jr. B.S.M.E. '47 of Dayton, Ohio, on April 28, 2012. He retired from General Motors as a mechanical engineer after 35 years of service. He was a veteran of the Army Air Corps and a member of Shiloh Church. He is survived by his wife, Janice; a daughter; a son; a sister; and a grandson.

Virgie Ray Bingham R.N. '48 of Greensboro, on May 7, 2012. During her career she worked as a registered nurse and nursing instructor at Cone and Wesley Long Hospitals. In her later years, she discovered woodcarving. She is survived by two sons, a daughter, five grandchildren, and a great-granddaughter.



MEMORIAL GARDEN • SARAH P. DUKE GARDENS

IMAGINE ... a garden of serenity, with exquisite plantings and shaded benches where family and friends can gather and reflect, in the heart of Duke Gardens.

Stones line the winding paths, engraved with the names and stories of those whose ashes are buried here.

A charitable contribution to the Gardens endowment is required, which may be part of estate plans.

For information, please contact:

Memorial Garden
Duke University, Box 90341
Durham, NC 27708
919-668-3604
bill.lefevre@duke.edu
gardens.duke.edu

Lorraine R. Moore '48 of Ormond Beach, Fla., on Sept. 10, 2011. A member of Alpha Chi Omega at Duke, she spent her professional life as a teacher. Survivors include a sister, **Tracy M. Moore** '45.

Daniel W. Davis Jr. M.D. '49 of Columbia, S.C., on April 18, 2012. He was chief surgical resident at Cornell Hospital in New York and was certified in thoracic, vascular, and general surgery. He served as a first lieutenant in the Army during the Korean War and practiced surgery in Columbia for 48 years. He was an archer and sports fisherman. He is survived by his wife, Carla; five sons, including **Daniel W. Davis III** '00; and eight grandchildren.

June E. Anderson McBrayer B.S.N. '49, R.N. '49 of Wilmington, N.C., on Aug. 1, 2010. A registered nurse, she worked for the Halifax County Health Department. She was a member of the Wrightsville United Methodist Church. She is survived by three sons, two brothers, seven grandchildren, and a great-granddaughter.

Paul W. Peeples '49 of Greenville, S.C., on April 3, 2012. He served in the Army during World War II and in the Army Reserve. After graduating from the Medical School of South Carolina, he practiced family medicine in Greer, S.C., for 34 years. He was a lifetime member of the Society of 1824, the medical university's philanthropic association. He was a member of Memorial United Methodist Church and the First Families of South Carolina. He served on the board of directors for the Boy Scouts' Blue Ridge Council. He is survived by his wife, Rita; two daughters; a son; and six grandchildren.

Nancy McLeod Reid '49 of Gastonia, N.C., on April 24, 2012. She was a member of First Presbyterian Church of Gastonia, as well as the Junior League of Gaston County and the Junior Woman's Club. Survivors include two sons, a daughter, and five grandchildren.

Gayle G. Arnold HS '50 of Richmond, Va., on Aug. 17, 2011. He was a captain in the Army Air Corps after World War II, then practiced pediatrics in Richmond from 1951 until his retirement in 2004. He served as medical director of the Richmond Cerebral Palsy Center from 1953 to 1997 and was chosen as the 114th Point of Light by President George H.W. Bush in 1990 in honor of his years of volunteer service. He is survived by his wife, Judith; two sons; a daughter; and five grandchildren.

Robert I. Cooper J.D. '50 of Palos Verdes, Calif., on May 12, 2011. He served in World War II at the Guantanamo Bay Naval Base, attending Duke Law afterward. He moved to Palos Verdes in 1960 and started his own law practice 10 years later. He was active in the Norris Theatre and many other local groups. He is survived by his wife, Mary; five sons; a daughter; and 10 grandchildren.

Harry D. Cox HS '51 of Norfolk, Va., on April 19, 2012. He practiced pediatrics for 50 years and was on staff at Portsmouth General Hospital and Maryview Hospital. He was also an associate professor of pediatrics at Eastern Virginia Medical School and president of numerous medical organizations. He served in the Navy Medical Corps as a lieutenant and sang in several church choirs. He was a member of the Flat Hat Society at the College of

William and Mary. Survivors include his wife, Grace; two daughters; two sons; eight grandchildren; and three great-grandchildren.

Robert W. Mathers '51 of Winter Springs, Fla., on March 12, 2012. He served as a Navy surgical corpsman during World War II. He then became an executive officer with American Federal Savings & Loans. After retirement, he was a federal agent with the Resolution Trust Corp. He is survived by his wife, Shirley; a daughter; two sons; a stepdaughter; a stepson; a sister; and eight grandchildren.

Richard A. Northam '51 of Glen Mills, Pa., on April 17, 2012. He worked for the Atomic Energy Division of DuPont for 41 years. He served on the board of directors of the Delaware Symphony Association later in life. He played soccer at Duke and was an avid skier, winning a bronze medal at the NASTAR national championship at age 76. He is survived by his wife, Alice; a son; a daughter; eight grandchildren, including **Alyssa Fanelli Benza** B.S.E. '02; and three great-grandchildren.

Robert S. Rickard '51 of Cedar Grove, N.J., on April 16, 2012. He served in the Army during World War II. He worked for the Blood Center of New Jersey, located in East Orange, and was a member of the board of trustees of the Leukemia Society of America. He belonged to American Legion Post 185. He is survived by his nieces, nephews, and cousins.

John M. Tapley '51 of Tampa, Fla., on April 10, 2012. At Duke, he was captain of varsity tennis and sang in the Glee Club. After college, he was commissioned as an officer in the Marine Corps. He briefly served as a prosecutor in North Carolina before becoming a trust officer with Harter Bank in Canton, Ohio. In 1976, he moved to Tampa and became head of the trust department at Sun Bank (now SunTrust). He is survived by his wife, Ruth; two daughters; a son; a brother; and six grandchildren.

Patricia A. Whitaker Hawfield '52 of Bethesda, Md., on March 31, 2012. Survivors include her husband, James; two sons; a daughter; a sister; and five grandchildren.

Martin Sack Jr. '53 of Jacksonville, Fla., on April 29, 2012. At Duke, he was president of Zeta Beta Tau and senior manager of the 1952 football team. After law school and two years of service in Germany with the Army, he returned to Jacksonville, where he practiced law for more than 50 years. He was a lifetime member of Congregation Ahavath Chesed and was a member, Paul Harris Fellow, and past president of the Rotary Club of West Jacksonville. He is survived by his wife, Carol; two sons, including **Kevin D. Sack** '81; a brother; and three grandchildren.

Terrence E. Hanner '54 of Burlington, N.C., on May 10, 2012. A grand master bridge player, he served in the Army and retired from Alamance Community College as registrar. He is survived by his wife, Bridget; a daughter; two sons; two brothers, including **Henry D. Hanner** '56; a sister; and two grandchildren.

Jane Macdonald Healy '54 of Fayetteville, N.C., on April 3, 2012. She was a member of the Greensboro Junior League and Our Lady of Grace Catholic Church, and she was active in the PTAs



Retire To A Place You Know And Love

- Carefree gracious apartment and cottage living
- Renowned cultural, educational, fitness & wellness programs
- Trusted Duke directed, on-site healthcare

20 Years of Excellence
The FOREST
at DUKE
 1992-2012

2701 Pickett Road, Durham, NC 27705

919.490.8000 • 800.474.0258 • www.forestduke.org



of her children's schools. She was a member of the Tartan Club, the Fayetteville Literary Guild, and the Fayetteville Garden Club. She also volunteered at the Cancer Center at Cape Fear Valley Medical Center. She is survived by her husband, Fritz; two daughters; two sons; and 11 grandchildren.

Suzanne Rutland Leach '54 of West Palm Beach, Fla., on April 1, 2012. She is survived by a son and two grandsons.

Charles H. Richardson B.D. '54 of Tulsa, Okla., on Dec. 7, 2011. He was ordained in the Methodist Church and served a number of churches in and around Tulsa. He was district superintendent for the Oklahoma City South District and was the director of Methodist Manor in Tulsa from 1988 to 1994. He is survived by his wife, Anna; a daughter; two sons; three stepchildren; and eight grandchildren.

Richard N. Bollinger B.S.M.E. '55 of Bethlehem, Pa., on April 19, 2012. An engineer at Duke, he was also captain of the lacrosse team and an All-American. He joined Bethlehem Steel in 1955 and, aside from a leave of absence to serve in the Army, stayed with the company until his retirement. He was president of the Duke Alumni Association's Greensboro club and an active volunteer. He also taught Sunday school at the First Presbyterian Church of Bethlehem. He is survived by his wife, **Helen Foppert Bollinger** '55; three sons; and eight grandchildren.

Norman A. Fox M.D. '55 of Bozeman, Mont., on March 27, 2012. He joined the Navy at 17 and was stationed in Corpus Christi, Texas. He completed his internship and residency in family practice at the University of Michigan, then set up practice at Guilford College. In 1974, he helped start Medical Associates, a group practice in Bozeman. Before retiring, he worked with Indian Health Services on a reservation. He is survived by his wife, Margaret; two daughters; and two sons.

George B. Herndon Jr. '56 of Greensboro, on April 26, 2012. He practiced law for 36 years, primarily as a partner at Nance Law Firm in Fayetteville, N.C. He was a member of the Fayetteville Kiwanis Club, serving as president in 1975, and received its Lifetime Achievement Award and the Wells Cup for Outstanding Service. He was named elder emeritus of First Presbyterian Church in 2005. He is survived by his wife, Eleanor; two daughters; a son; two stepsons; a brother; and seven grandchildren.

Marcus B. Hitchcock Jr. '56 of Nashville, Tenn., on Nov. 18, 2011. He is survived by his wife, Gayle; two daughters; two brothers; and three grandchildren.

Carol J. Land Andrus '57 of New York, on May 15, 2010.

Gordon D. Lewis M.F. '57 of Asheville, N.C., on April 25, 2012. He served in the Army in the Korean War and received his doctorate from Michigan State University. He was a professor of research for the U.S. Forest Service. He is survived by his wife, Yoshie, and a brother.

Elizabeth G. Whitley Hofferbert R.N. '58, B.S.N. '60 of Huntersville, N.C., on April 1, 2012. Originally from Siler City, N.C., she had a long career in nursing. Survivors include her husband, William; two daughters; and two sons.

Philip T. Howerton M.D. '58 of Morganton, N.C., on April 1, 2012. A captain in the Air Force from 1954 to 1963, he later helped found Blue Ridge Radiology Associates and continued to practice medicine there until his retirement in 2003. He was involved in his church and community and served on many boards and organizations. He is survived by his wife, Hilda; a son; two daughters; a stepson; a stepdaughter; a brother; and three grandchildren.

George E. Dunlap '59 of Jacksonville, Fla., on July 20, 2011.

John G. Pless '59 of Rural Hall, N.C., on Jan. 14, 2012. Survivors include his wife, Wendy; a son; a daughter; and five grandchildren.

Robert E. Whalen HS '60, HS '61 of Wake Forest, N.C., on April 25, 2012. He moved to Durham in 1956 to train as an intern at Duke Hospital. He remained at Duke, where he finished his residency and fellowship in cardiology, then worked at Duke University Medical Center as a clinical cardiologist from 1961 to 1992. He served as director of Duke University Medical Center, director of the Cardiovascular Disease Service, and chief of internal medicine. He became a professor of medicine at Duke in 1974, received the Distinguished Teacher Award in 1987, and was named professor emeritus in 2000. He is survived by his wife, Evelyn; four daughters; two sons; two stepsons; and 15 grandchildren.

Ida Mae Speeks A.M. '61 of Fairfax, Va., on April 17, 2012. A retiree of Fairfax County schools, she was also an elder in Fairfax Presbyterian Church and was a fundraiser for the Fairfax Salvation Army. She is survived by two brothers.

Harriett E. Cope Bebout '62 of Cleveland, on March 17, 2012. She worked as an associate professor of mathematics education at the University of Cincinnati for 20 years. She dedicated her professional life to improving education in urban schools. Upon retirement, she returned to Wisconsin to be closer to her family and friends. She is survived by two sons, a daughter, and six grandchildren.

William J. Kinnamon Jr. '62, LL.B. '63 of Spotsylvania, Va., on April 14, 2012. He was a commercial credit analyst with First & Merchants National Bank before practicing law with a private firm in Fredericksburg from 1967 until 2008. A Rotary Foundation Paul Harris Fellow, he received numerous awards for his charitable work, including a Volunteer of the Year Award and a Citizenship Award from the Fredericksburg Regional Chamber of Commerce. Survivors include his wife, Jo Anne; a daughter; a son; a sister; and two grandchildren.

Janet W. Duke Beury '64 of Crofton, Md., on April 20, 2012. She taught social studies and English at junior high schools for eight years before beginning a real-estate career. She was a top real-estate producer and received the RE/MAX Hall of Fame and Lifetime Achievement Awards. She retired in 2004 after 30 years in real estate. She is survived by her husband, Ron; a daughter; a sister; a brother; and two grandchildren.

Mary Ann Musser M.Ed. '64, Ed.D. '68 of Lexington, Ky., on April 25, 2012. She was a lifelong teacher, educating students in Brownsburg,

Ind., N.C. Central University, Kentucky College of Business, and H&R Block. She was a Girl Scout volunteer for 45 years. She is survived by two daughters; a son; and a grandchild.

William W. Stanfield Jr. '64, A.M. '05 of Wilmington, N.C., on April 14, 2012. He was founder and CEO of Cape Fear Bonded Warehouse, managing partner of Southerland & Stanfield in Mebane, N.C., and investor and co-managing member of River Enterprises Inc. An elder, deacon, Sunday school teacher, and coach at First Presbyterian Church, he was also chairman of the board of New Hanover Regional Medical Center. He is survived by his wife, Alice; three sons; and eight grandchildren.

Addison G. Mangum HS '65 of Albemarle, N.C., on April 9, 2012. He completed his residency at Duke University Medical School. He was a radiologist at Stanly Memorial Hospital and an Air Force veteran.

Allan H. Davis '66 of Richmond, Va., on March 30, 2012. After Duke, he moved to the San Francisco area, where he owned and managed The Book and Bean, one of the country's first bookstore cafés, and was the proprietor of Yard Art, a nationally known store specializing in antiques for gardens. He later moved back to his hometown. He is survived by a sister, **Patsy Harriet H. Davis** '63.

Cynthia Ann Gilliatt '66 of Harrisonburg, Va., on Aug. 16, 2012. She helped found and support Integrity/Virginia, an organization that provides safe spiritual space for LGBT people. She was a priest associate at Emmanuel Episcopal Church, where she also served as chaplain to its Canterbury Club, and priest-in-charge at the Church of the Good Shepherd. She helped found Safe Zones at James Madison University, where she was an associate professor of English.

Richard K. Reider M.A.T. '67 of Austell, Ga., on April 20, 2012. He joined the Navy in 1941 and, after two years of working on aircraft searching for German submarines, he entered flight school, receiving his Navy gold wings in 1945. After retiring from the Navy in 1966, he taught advanced math at Westminster Schools in Atlanta for 20 years. He and his wife traveled to 72 countries. He is survived by his wife, Jean; a daughter; a son; a sister; two grandchildren; and five great-grandchildren.

Edwin J. Johnson B.S.E.E. '68 of Littleton, Colo., on Feb. 28, 2012. Survivors include his wife, Karen.

Howard G. Godwin Jr. J.D. '69 of Tarrytown, N.Y., on April 1, 2012. He was a corporate lawyer at Sidley Austin in New York for 42 years and had been a partner since 1978. He served on the UNC-CH board of visitors. A high-school sports fan, he was the sole sponsor of the Sleepy Hollow High School Annual Holiday Basketball Tournament for the past 20 years. He is survived by his wife, **Mary Ann "Mimi" McDonough Godwin** M.Ed. '69; two daughters; and a sister.

John W. Wilder M.Div. '69 of South Boston, Va., on Oct. 15, 2011. After serving in the Army, he began 48 years of ministry in the United Church of Christ in 1958. Following retirement, he continued to volunteer at Halifax Regional

Hospital as an associate chaplain, as well as continuing regular visits to the areas nursing homes. He was a master gardener. He is survived by his wife, Eloise; a daughter; two sons; a sister; and a granddaughter.

Robert D. "Doug" Hagan M.Ed. '72, Ed.D. '74 of Springfield, Ill., on April 1, 2012. After enlisting in the Marine Corps, he earned his doctorate in education while serving as the NROTC Marine Officer instructor at Duke. After retiring from the Marine Corps in 1979, he joined SRI International, formerly Stanford Research Institute, in Menlo Park, Calif. He is survived by his wife, Dee; two children; three stepchildren; a sister; six grandchildren; and two step-grandchildren.

Ruthann Huling Hall '73 of Worcester, Mass., on April 12, 2012. After graduating magna cum laude, she began her career in the insurance industry, became an actuary, and retired early from John Hancock Mutual Life in 1998. Since 2000, she and her husband served as missionary volunteers through the United Church of Christ's sister denomination in South Africa. She is survived by her husband, **Jan Tore Hall** '73; her parents; a sister; a brother; and her father-in-law, **Thor Hall** M.R.E. '59, Ph.D. '62.

Johnnie L. Gallenmore Jr. J.D. '74 of Maryville, Tenn., on April 24, 2012. A psychiatrist, he taught at Duke, as well as Marshall University, East Tennessee State University, and

Eastern Virginia Medical School. He practiced psychiatry in Florida and Tennessee. He is survived by two sons, two brothers, and three grandchildren.

David L. Henson M.I.A. '74 of Winston-Salem, on April 23, 2012. He served in the Army after college and was awarded a Bronze Star for his service in the Vietnam War. He was a hospital administrator for Wilkes Regional Medical Center, retiring in 2009 after working in health care for more than 30 years. He is survived by his wife, Wanda; three sons, including **Matthew C. Henson** '04; and his father.

David V. Blagg II M.H.A. '75 of Florence, S.C., on March 21, 2012. After earning master's degrees from Duke and Oberlin College, he pursued a career in medical administration. He was a mentor and volunteer for the medical and arts communities. He is survived by his companion, Carole Morgan Goff; a son; two daughters; his mother; a brother; a sister; four grandchildren; and a great-granddaughter.

George R. Cline M.E. '75 of Cross Creek, Fla., on March 31, 2012. In 1975, he started Timber Management Services, where he was owner and sole proprietor. His civic activities included being a member of the Free & Accepted Masons, Sons of the American Revolution, the NRA, and the Society of American Foresters. An Eagle Scout, he was an elder of Cross Creek Church and served on the Avella Area school board. He is survived by his wife, Beverly Hendrickson; three daughters; and a brother.

George Cooper IV H.S. '75 of Charleston, S.C., on April 28, 2012. He was an internationally recognized expert in heart physiology and a leader in research into the causes of heart failure. He wrote more than 80 scientific articles and 10 book chapters in the field of cardiac mechanics and received a research prize from the American Heart Association and an award from the American Physiological Society in recognition of his research achievements. He is survived by his wife, Elizabeth; four sons; two sisters; and four grandchildren.

Paul B. Keller B.S.E. '76 of St. Louis, on April 13, 2012. He was an engineer who made his career as an executive in the resort and entertainment businesses. He was executive vice president of design and construction for Trump Entertainment Resorts and served as vice president of design and construction for Argosy Gaming Co. He also had a leadership role at Walt Disney Imagineering and was active in the development of Epcot Center and Tokyo Disneyland. He later joined Isle of Capri Casinos Inc. as chief development officer. He is survived by his wife, Mary; a daughter; his mother; and two sisters.

Marilyn Wise Roberts '76 of Decatur, Ga., on Dec. 6, 2010. Survivors include her husband, Bruce; a daughter; her parents; a brother; and a sister.

Jimmie E. Martin Ed.D. '77 of Albemarle, N.C., on March 24, 2012. He retired as superintendent of the Stanly County schools in 1993 after almost 40 years in education. He was named the southwest region's Superintendent of the Year in 1989 and 1992 and was an adjunct instructor at UNC-CH and Pfeiffer University. He taught Sunday school. He is survived by his wife,

How do you want to retire?

Rejuvenate



Stay young in mind, body and spirit by becoming a part of The Village at Brookwood. Whether you are swimming with the grandkids, traveling with friends or participating in lifelong learning at Elon University, programs at The Village focus on extending your years of wellness.

The Village at Brookwood — This is how we do retirement.



The VILLAGE

AT BROOKWOOD

1860 Brookwood Ave.
Burlington, NC



Sponsored by
Alamance Regional
Medical Center

800-282-2053

www.VillageAtBrookwood.org

Kathleen; a daughter; two sons; a sister; six grandchildren; and a great-grandchild.

William R. "Bob" Routon M.S. '81 of Humboldt, Tenn., on April 26, 2012. He completed his general surgery residency at Tampa General Hospital in Florida. Since 1982, he served as chief general surgeon at Humboldt General Hospital. He made illustrations for several medical textbooks. He is survived by a son, a daughter, three sisters, and three brothers.

James R. Fouts M.Div. '84 of Sylva, N.C., on April 15, 2011. He worked for the National Institute of Environmental Health Science in Chapel Hill until his retirement in 1985. He was a leader in environmental science and climate change, writing more than 250 scientific publications, and was listed in *Current Contents* "1,000 Most Cited Contemporary Scientists 1965-78." He pursued a second career in religion, and was ordained in 1986. He is survived by his wife, Joan; a son; two daughters; a sister; 10 grandchildren; and a great-grandson.

Melinda A. "Lindy" Olney Rex B.S.E. '85 of Cary, N.C., on April 24, 2012. She made, shared, and donated jewelry to raise money for cancer research. She is survived by her husband, **Douglas S. Rex** B.S.E. '85, M.B.A. '91; three sons; a surrogate daughter; her parents; and two brothers.

Bradley B. Wayburn B.S.E. '85 of Park City, Utah, on Feb. 4, 2012. Survivors include his parents and two brothers.

William L. Basuk M.D. '86 of San Diego, on April 30, 2012. He completed his medical resi-

dency in ophthalmology before spending a year as a fellow with Project Orbis, a volunteer group that brings eye-care services to areas in need. He was a corneal specialist in San Diego since 1993, and in 2003, he was appointed assistant clinical professor of ophthalmology at the University of California-San Diego School of Medicine. He was the sitting president of the San Diego Eye Bank. He is survived by his father; a sister, **Barbara Basuk Ship** M.D. '80; and a brother.

Thomas M. Morton M.Div. '89 of Concord, N.C., on April 19, 2012. He worked for the North Carolina Department of Transportation bridge crew during college, then taught high-school history after graduating. He served as principal of Mount Ulla elementary school before becoming superintendent in 1978. He then became pastor of Center United Methodist Church in Greensboro and served several churches before retiring in 2007. He is survived by his wife, Beverly; two daughters; a stepdaughter; a stepson; a brother; and four step-grandchildren.

Michael E. Faulstich M.D. '92 of Mount Pleasant, S.C., on April 21, 2012. He practiced radiology at Clarendon Memorial Hospital and Williamsburg Regional Hospital, as well as covering several outpatient imaging centers. He is survived by his wife, Kim; a son; two daughters; his parents; three sisters; and a brother.

Ronald A. Burrell M.Div. '04 of Raleigh, on May 1, 2012. Survivors include his wife, Margaret; a daughter; two sons; a stepson; his father and stepmother; eight sisters; and three brothers.

Alex Fayne M.B.A. '04 of Chestnut Hill, Mass., on May 7, 2012. He was a founder and

COO of Pfizer's Centers for Therapeutic Innovation. Previously, he held commercial and strategy roles at MedImmune in Gaithersburg, Md., and Genentech in San Francisco. He is survived by his wife, **Sara L. Green** '98; a son; his parents; and a brother.

Tristan G. Zimmerman LL.M. '05 of Geneva, Switzerland, on April 6, 2012. He attended College de Candolle in Geneva before attending Duke. He published several papers in the area of religious freedom.

Regine Marie Gordon '08 of Tampa, Fla., on June 21, 2012. She was a consultant and head of marketing at ExcelaCom Inc. She competed in the 2011 Marine Corps Marathon in Washington and was a snowboarder, certified scuba-diver, and poet. She is survived by her parents and two brothers.

Marsha Ann Hanly M.S.N. '08 of Suffolk, Va., on May 16, 2012. She was commissioned in the Navy's Nurse Medical Corps in 1996. During her 16 years in the Navy, she served in Virginia, Italy, and Kuwait and reached the rank of commander. She is survived by her husband, Scott; a daughter; a son; her parents; two brothers; a sister; and a grandmother.

Edward A. Adams M.T.S. '11 of Durham, on Oct. 19, 2011. He was a member of Bethlehem Baptist Church and was ordained by Fairfield County Baptist Association in 2007. He received a bachelor's degree in business administration from Winthrop University and a master's of healthcare administration from Ohio State University. He is survived by his wife, April; a daughter; his parents; two sisters; two brothers; and a grandmother.

Classifieds

Looking for ways to **reach an exclusive clientele?** Advertise with *Duke Magazine* and access more than 120,000 potential clients in the Duke family. For rates, requirements, deadlines, and all other questions, check out www.dukemagazine.duke.edu, or e-mail us at dukemag@duke.edu.

ACCOMMODATIONS

Paris: Marais. Luxury rental in center of Paris. Close proximity Picasso Museum, Centre Pompidou and other historical sites as well as gourmet shops of Rue de Bretagne. See owner's website at www.parischapon.com.

Ski in/Ski out. Luxury Deer Valley 3 Bedroom Condo. Arrowleaf Lodge #303 Sleeps 6-8. Fantastic mountain views from every room. Mention the Duke Discount! www.VRBO.com/394683

Tuscany: Castle. Spend a week in a fabulously restored 11th century castle. Sleeps 8. www.castellodiporciano.com. Contact Betsy Conti at 919-961-5565, betsy@thecontigroupllc.com

FOR SALE

FREDDY ROBERTSON'S 45's RECORD COLLECTION. 51K records. See unclefredsrecords.com. (570) 856-4292, duke1971@ptd.net

Four ten (10) acre wooded lots (\$74,975) on stream in Orange County only 25 minutes from Duke between Mebane/Chapel Hill 4+/- miles from I-40/I-85 on Mebane Oaks Road. 10% discount for cash - owner financing available. John M. Jordan, 58', Saxapahaw, NC 27340, (336) 376-3122 (work), (336) 214-3650 (mobile), (336) 376-3132 (home), john@jordanproperties.com

MISCELLANEOUS

An organization for women of the Duke community - faculty/staff, spouses, alumnae, volunteers. Join us for interesting programs, lectures, interest groups, trips. Contact Karen Childers (kwchilders@nc.rr.com) or visit our website www.dukecampusclub.com for more information.

CAMPUS CLUB
DUKE UNIVERSITY

Retro

One Hundred Reasons

Duke has received larger gifts than George-Frank Wall's—but rarely one more meaningful. | By Valerie Gillispie

Duke has a long and proud history of support from individuals, whose gifts have helped make the university what it is today. The largest of those gifts, such as the establishment of The Duke Endowment by James B. Duke in 1924, are well celebrated, their legacies literally cemented into the university's physical campus. But the thousands of smaller contributions Duke has received throughout its history often reveal a more intimate portrait of Duke's connection to its donors. Such a gift came in 1946, when longtime Duke employee George-Frank Wall made a bequest to Duke, one whose symbolism outsized its monetary value.

The story starts in 1870, when President Braxton Craven hired fourteen-year-old George Wall, a former slave, to help out on Trinity College's campus in Randolph County. Known to everyone around campus as "Uncle George," Wall worked for Trinity (and later, Duke) for sixty years. When Trinity moved to Durham in the 1890s, Wall followed. He purchased land near the Durham campus and helped establish the neighborhood later named for him, Walltown.

Upon learning of his death in 1930, John Franklin Crowell, former president of Trinity, wrote to the *Alumni Register*: "During my latest visit to Durham, I learned incidentally that George Wall lived in the vicinity. President Few sent for him so that we might meet again, and ours was a happy half hour in recalling old times. We seemed to be



Sheriff of the dining halls: Like his father, George-Frank Wall worked at Duke for more than sixty years. His will (right) underscored his loyalty to the university.

like old friends cordially enjoying each other's recollections as coworkers. The cordial spirit in which we chatted caused some to remark what a fine friendly feeling prevailed between President

THEN&NOW

BELLS

1876

The original **Trinity College Bell** is cast. When Trinity College moved to Durham in 1892, the original bell was placed in storage and later relocated to a museum of university history in the Duke University Chapel tower. A second Trinity bell was hung in the Washington Duke Building's bell tower.



July 22, 1911

Following a fire that destroyed the Washington Duke Building and its bell, Benjamin N. Duke gives funding for a new campus bell, which was dedicated on this date. The bell was christened "**Marse Jack**," after recently elected Bishop of the Methodist Episcopal Church, South (and former Trinity College President) John C. Kilgo. Marse Jack has hung in the Bell Tower Residence Hall since it opened in 2005.

LISTEN ◀ <http://www.youtube.com/watch?v=vTslIHkWO8>

and Janitor of the same institution, after more than thirty years of separation.” Crowell wrote that he considered Wall’s death a personal loss.

George-Frank Wall, one of George Wall’s nine children, was born sometime before Christmas of 1871. (The exact date is unknown.) Frank, as he was known, often helped his father clean and make beds for students at Trinity. He did not receive a formal education and likely could not read or write. But like his father, he became an integral part of Durham and campus

life, raising four sons in Walltown and continuing to work at Duke until his death in 1953. Longtime director of dining halls Ted Minah dubbed Wall the “Sheriff of the Dining Halls,” as Wall was assigned to enforce the cleanliness of the dining facilities. When Wall wrote his will in 1946, he elected President Robert Flowers as executor of his estate.

That will stated that all Wall’s worldly possessions should go to his wife—except for \$100. That—the equivalent of about \$1,200 today—he reserved for Duke.

“The reason that I am giving Duke University the One Hundred Dollars,” the will states, “is that I have been employed by said School all my life, from Old Trinity in Randolph County, to Trinity College in Durham, thence Duke University where I am now employed.

I want to impress on other colored men, the fine and good relations between Christian White People and Christian Negroes. For seventy-five years, I have been employed by said institution and never a cross word but Christian Harmony.”

Wall’s gift, which was added to the scholarship fund, came at a time when Duke did not admit African-American students. It would not be until ten years after his death that the first black undergraduates enrolled. In the years since, two descendants of the elder George Wall’s nine children have graduated from Duke, according to the Wall family.

The family connection that inspired Wall’s generosity is visible in many other aspects of university life, as well. In recent years, Duke has forged new partnerships with the Walltown neighborhood, including a neighborhood health clinic, a children’s theater, and a DukeEngage project to help middle-school students learn about the history of their neighborhood.

Throughout Duke’s history, thousands of employees and alumni have shown their support of Duke with gifts large and small. Stories like those of George-Frank Wall and his family’s enduring bond to Duke help us remember that the true value of those gifts isn’t always measured in dollars and cents.

Gillispie is Duke’s university archivist.

Wall’s gift, which was added to the scholarship fund, came at a time when Duke did not admit African-American students.

North Carolina
Durham County

Last Will and Testament of George Frank Wall, of said county and state, doth make this my last will and Testament. Hereby revoking all other wills, heretofore made by me.

Item One.

I, George Frank Wall, of said county and state, doth make this my last will and Testament. Hereby revoking all other wills, heretofore made by me.

Item Two

I, bequeath, and devise all of my property, both real and personal to my beloved wife, Minnie Wall, in fee simple for ever, except One Hundred dollars, hereinafter bequeathed.

I, bequeath, the sum of One Hundred Dollars to Duke University for ever. The reason that I in giving Duke University the one Hundred Dollars, is that I have been employed by said School all my life, from Old Trinity in Randolph County to Trinity College in Durham, thence Duke University where I am now employed. I want to impress on other colored men, the fine and good relations between Christian White People and Christian Negroes. For 75 years, I have been employed by said institution and never a cross word but Christian Harmony.

Item Three

I, nominate, constitute and appoint Professor R.L. Flowers, as my Executor, to carry out this my last will and testament.

Witness my hand and seal, this 19th day of June, 1946

George Frank Wall

I, the undersigned witnesses, do at the request of the Testator, and in his presence signed our names, as witnesses to the above instrument for the purposes therein expressed.

A.G. McVernon
Witness

Doris H. Hedger
Witness

Duke Endowment trustees George G. Allen and William R. Perkins pledge funding to purchase a carillon for the chapel, then under construction. President William Preston Few accepted the gift, writing that the carillon would be

April 28, 1930



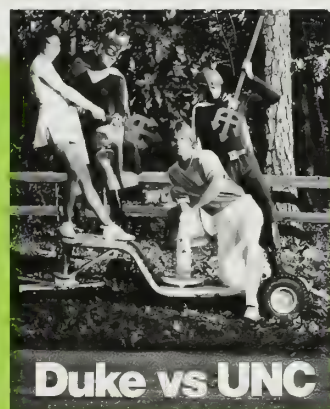
“the voice of the University.” Anton Brees, the first university carillonneur, performed the fifty-bell carillon’s inaugural concert—to an audience of 10,000—on June 5, 1932, as part of Duke’s commencement events.

November 20, 1948

The Victory Bell—a spirit-boosting idea of Duke head cheerleader Loring Jones ’50 and UNC head cheerleader Norman Speer—makes its debut at the Duke-UNC football game.

1986

J. Samuel Hammond ’68, M.A.T.S. ’96 is designated second university carillonneur by President H. Keith H. Brodie. Hammond, who began as student carillonneur in 1965, is still playing the carillon on weekdays and after chapel services.



All photos courtesy University Archives

Devil's Own

It would give me great joy if, through the labor of my hands, I could prove to you my sincere interest in this momentous day."

These words, written in 1821 by a German man named E.N.W. Kutscher, accompany an extraordinary wedding gift, presented to a bride addressed as Mademoiselle Lilli Kemmeter. At first glance, it appears to be an ordinary sewing kit, with brass handles, a floral pattern decorating the outside, and nearly 100 spools of silk thread in every color imaginable. But hidden beneath the sewing equipment, accessible by removing a false bottom, is a secret library—a sixty-volume collection of German classics printed in hardcover books the size of a modern smartphone.

Did Kutscher make the hidden library to help conceal the newlywed's reading habits from a disapproving husband? Was it merely convenient storage for a treasured collection of volumes? The mystery adds to the intrigue of the kit, purchased by Duke Libraries this past April. The books alone make it a rare find, but librarians say their context offers an intimate look into the life of an upper-middle-class European woman in the nineteenth century—one that may be valuable for scholars of the period, or anyone who loves a good yarn.

—Mike Schreiner



Storing a secret: Rare sewing kit hides a collection of German literary classics.

Photo by Les Todd

Duke Reunions 2013

April 12-14, 2013

**Recapture the Fun, the Friendships,
and the Magic of your Duke Experience!**

Reunions 2013 offers something for everyone.

From educational sessions to class parties, from tours
and performance events to sports clinics, we've
got a great Reunions Weekend coming
your way this spring.

Your reunion begins online at:

www.DukeReunions.com

Duke
ALUMNI ASSOCIATION



CLASSES

**1953, 1958, 1963, 1968, 1973, 1978,
1983, 1988, 1993, 1998, 2003, 2008
and the Half Century Club**

Start making your plans **ONLINE** now.

You'll want to see what everyone has been
doing lately, and share your own news.

www.DukeReunions.com



Duke Alumni Association

Reunions Office • Box 90572 • Durham, NC 27708-0572

www.DukeReunions.com

DUKE

DUKE UNIVERSITY BOX 90160
DURHAM, NORTH CAROLINA 27708-0160

NONPROFIT ORG
U.S. Postage
PAID
PPCO

PERIODICALS
PERKINS LIBRARY
BOX 90160

1330

Travel *with* Duke

Your friends. Your faculty. Your dream destinations.

Where do you want to go in 2013?

www.dukealumnitravel.com

Duke

ALUMNI ASSOCIATION

Burma: March 11-21



Insider's Japan: April 17-29



Iceland/Greenland: August 12-24



Celtic Lands: May 9-17

Should You Eat Fish? 28 | Close Call in Vietnam 34 | Catching Up With the World's Best Hiker 40

DUKE

NOVEMBER-DECEMBER 2012

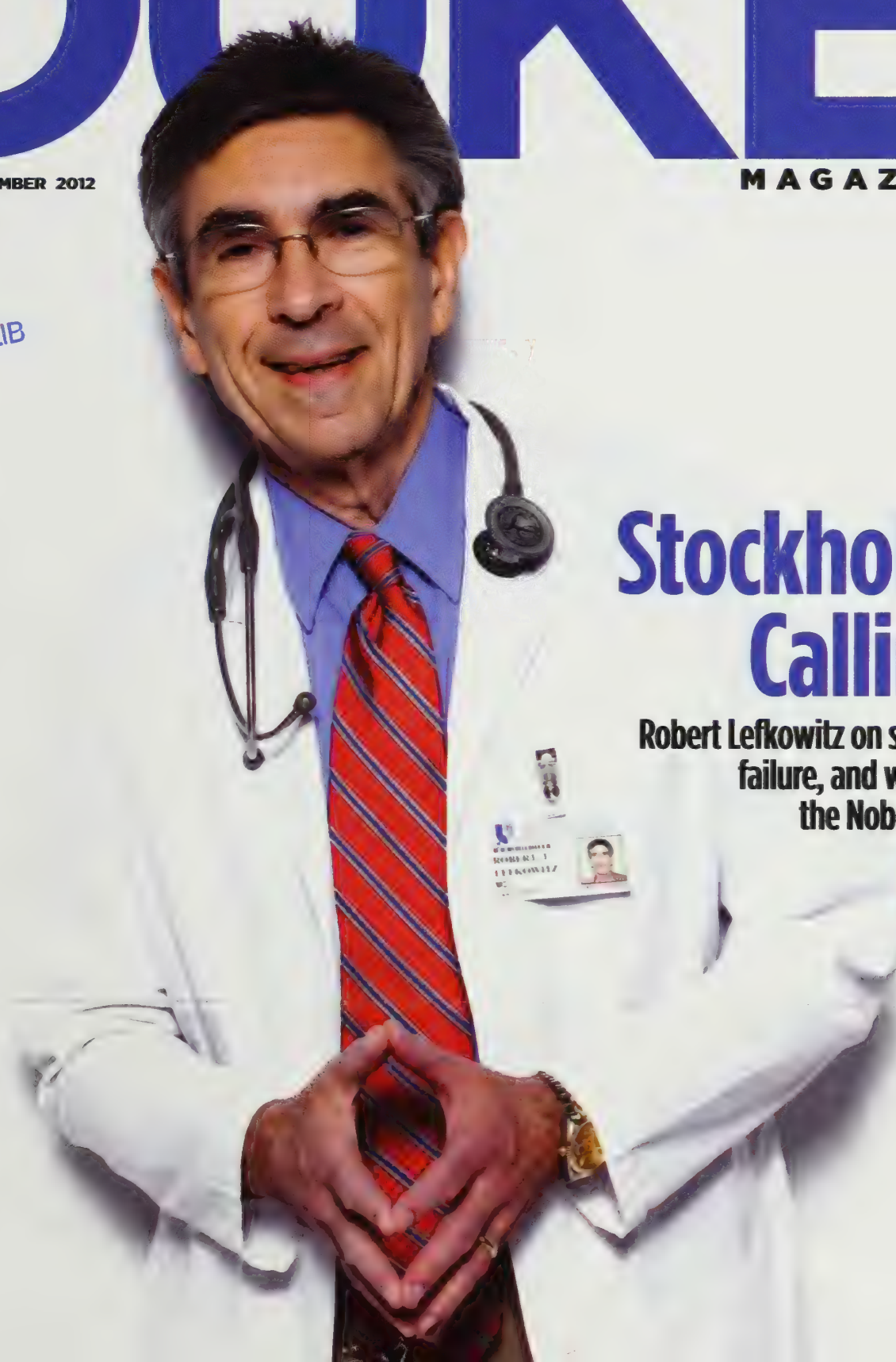
MAGAZINE

RECEIVED
NOV 29 2012
DUKE UNIVERSITY LIB

Stockholm Calling

Robert Lefkowitz on science,
failure, and winning
the Nobel Prize

22





Judy Thorpe

Supporting
Tomorrow's
Talent

Judy Thorpe B.S.N. '77 always knew that nursing was her calling. Following graduation from Duke's School of Nursing, she launched her career as a staff nurse at nearby North Carolina Memorial Hospital. Judy worked as a nurse manager in the Boston area for nearly 20 years, and now serves as associate chief nursing officer at Melrose-Wakefield Hospital in Melrose, Mass. She oversees nursing operations and the implementation of patient safety and satisfaction projects.

"My Duke education has opened so many doors throughout my career," Judy said. "The clear expectation for all nursing students was that we would become leaders and would pursue additional educational opportunities. At our most recent reunion, it was so gratifying to see how many of us did indeed meet those expectations."

Judy has been a Duke volunteer and a longtime annual supporter, and in 2010 she established a bequest to create the Judith A. Thorpe Scholarship Fund. Her endowment will provide ongoing support for nursing students at Duke. "The future for all of us is so dependent upon the quality of education for the generations to come," said Judy, who was welcomed into the Duke Heritage Society and the James B. Duke Society in recognition of her gift. "I was fortunate that my family was able to support and encourage me in attending Duke. I wanted to create an opportunity for someone who otherwise might not be able to have the experience I had."

To explore ways you can make a deferred gift to create opportunity for future generations, visit dukeforward.duke.edu/giftplanning or contact:

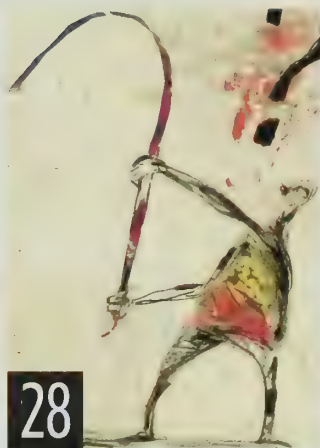
DUKE UNIVERSITY
GIFT PLANNING

Duke University Office of Gift Planning
Box 90600
Durham, North Carolina 27708
Phone (919) 681-0464
Fax (919) 684-9731
Email gift-planning@dev.duke.edu

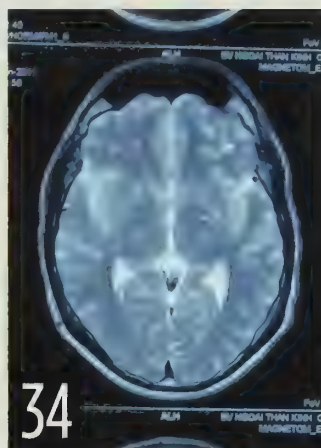
FEATURES



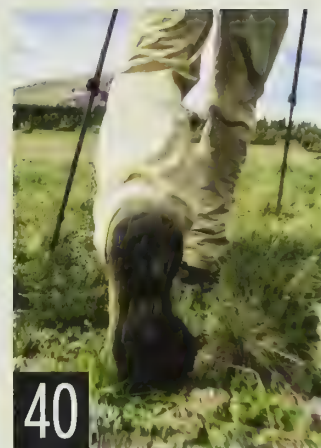
22



28



34



40

COVER

The Chemistry of Discovery

By Robert J. Bliwise

Duke's first homegrown Nobel laureate, Robert Lefkowitz, on how science develops from asking big questions and accepting inevitable failure

The Tricky Academics of Eating

By Barry Yeoman

Martin Smith's class poses a simple question: Should I eat fish? But answering it sends students into murky waters.

The Save

By Michael Penn

Kendall Bradley '11 knew her friend was in trouble. But to get Nick Tsipis '11 to safety, she'd need help from Duke's global network—and a cell phone.

I Will Keep Up With Andrew Skurka

By Ken Ilgunas A.M. '11

Think you can match steps with Andrew Skurka '03, the greatest long-distance hiker on the planet? Only part of the challenge is physical.

COVER: Duke professor Robert Lefkowitz, winner of the 2012 Nobel Prize in Chemistry. Photo by Chris Hildreth

DEPARTMENTS

4 Forum

5 THE Quad

David Rubenstein '70 channels James B. Duke; plus, first-generation students at Duke and how a grad student solved a musical mystery



17 Ideas

A cancer team makes a discovery about...nylon?

20 Observer

On the trail with Duke's PWILD pre-orientation program

49 Muse

The three Duke friends behind the new movie *Family Weekend*

52 Sports

Duke's women's soccer team finds a mental edge

55 ForeverDuke

DAA activities and connections

59 ClassNotes

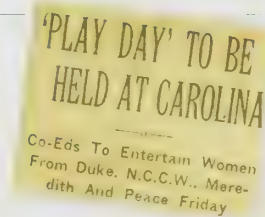
77 Classifieds

78 Retro

"Play Day" was a rare moment for female athletes to shine

80 Devil's Own

Making early music with Duke's crumhorn collection





FULL FRAME

Bell man: Since 1986, university carillonneur J. Sam Hammond '68, M.T.S. '96 has been playing weekday concerts from his perch in Duke Chapel. He is only the second carillonneur in Duke's history. *Photo by Les Todd*



EDITOR:
Robert J. Bliwise A.M. '88

MANAGING EDITOR:
Michael Penn

ASSOCIATE EDITOR:
Bridget Booher '82, A.M. '92

CLAY FELKER MAGAZINE FELLOW:
Elissa Lerner '08

STAFF ASSISTANT:
Delecia Hatcher

PUBLISHER:
Sterly L. Wilder '83, Associate Vice President, Alumni Affairs

STUDENT INTERNS:
Dan Altman '15
Ryan Hoerger '16
Tim Lerow '15

SPECIAL SECTIONS EDITOR:
Jacob Dagger '03

DESIGN CONSULTANT:
Lacey Chylack, phase5creative inc.

PRINTER:
Progress Printing

OFFICERS, DUKE ALUMNI ASSOCIATION:
Jeff Howard '76, president
Sterly L. Wilder '83, secretary-treasurer

EDITORIAL ADVISORY BOARD:
Peter Applebome '71, chair
Sarah Hardesty Bray '72; James Burnett '98
William Cohan '81; Jennifer Farmer '96
Jerrold K. Footlick; Robbyn Footlick '85
Edward M. Gomez '79; Devin Gordon '98
Kerry E. Hannon '82; John Harwood '78
Dave Karger '95; Sara Lipka '01; Julia Livshin '96
Valerie A. May '77; Susannah Meadows '95
N. Page Murray III '85; Will Pearson '01
Lauren Porcaro '96; Shaun Raviv '01
Jim Rosenfield '81; Jon Scher '84
Lesley Jane Seymour '78; Elizabeth Spiers '99
Greg Veis '03; James O. Wilson '74
Robert J. Bliwise A.M. '88, secretary
Clay Felker '51, founding chair

DUKE MAGAZINE
Box 90572, Durham, N.C. 27708
PHONE: (919) 684-5114; FAX: (919) 681-1659
E-MAIL: dukemag@duke.edu

ADDRESS CHANGES:
Alumni Records, Box 90581, Durham, N.C. 27708
or e-mail bluedevil@duke.edu

© 2012 Duke University
Published bimonthly by the Duke Alumni Association



Forum

UNDER THE GARGOYLES

It's a pretty good bet that a Nobel Prize will thrust a university into the spotlight. But intellectual achievement and popular culture sometimes intersect in surprising ways.

Duke biology professor Kathleen Pryer Ph.D. '95 discovered that recently. She had figured out that a group of ferns was assigned to the wrong genus. New tools for genetic analysis are reorganizing the family tree of ferns, according to Pryer, who is president of the American Fern Society and of the American Society of Plant Taxonomists. She is also director of the Duke Herbarium.

Pryer had the genius, as it were, to honor megastar Lady Gaga with the name of the new genus. Nineteen species of ferns—found in Central and South America, Mexico, Arizona, and Texas—would forever carry the name *Gaga*.

"We wanted to name this genus for Lady Gaga because of her fervent defense of equality and individual expression," says Pryer. "And as we started to consider it, the ferns themselves gave us more reasons why it was a good choice."

At one stage of life, the ferns in the new genus produce spores that can grow into plants that may be male, female, or bisexual. In her performance at the 2010 Grammy Awards, Lady Gaga wore a heart-shaped costume that looked, to the fern-knowledgeable among her fans, like a fern in that reproductive phase. It was even the right shade of light green. The way the fern extends its new leaves in a clenched little ball reminded Pryer of Gaga's claw-like "paws up" salute to her fans. Finally, graduate student Fey-Wei Li, while scanning the DNA of the ferns being considered

for the new genus, found GAGA spelled out in the plants' DNA.

When the findings were announced in October—just a few weeks after the media frenzy over Robert Lefkowitz's Nobel Prize—they created a fern-related ferment. *The New York Times* wondered, sardonically, if "the Lady Gaga ferns might tour with the Beyoncé housefly recently identified in Australia." Even MTV covered the news, suggest-



Gaga: The Lady and the plant

ing the *Gaga* genus, like Lady Gaga herself, "dares to be a little different."

"So often, people give names in honor of old white guys that have worked on ferns for a long time, but we didn't want to do that," Pryer told MTV. "And there were so many things about these 'Gaga ferns' that we decided to name the new genus after her, to celebrate diversity."

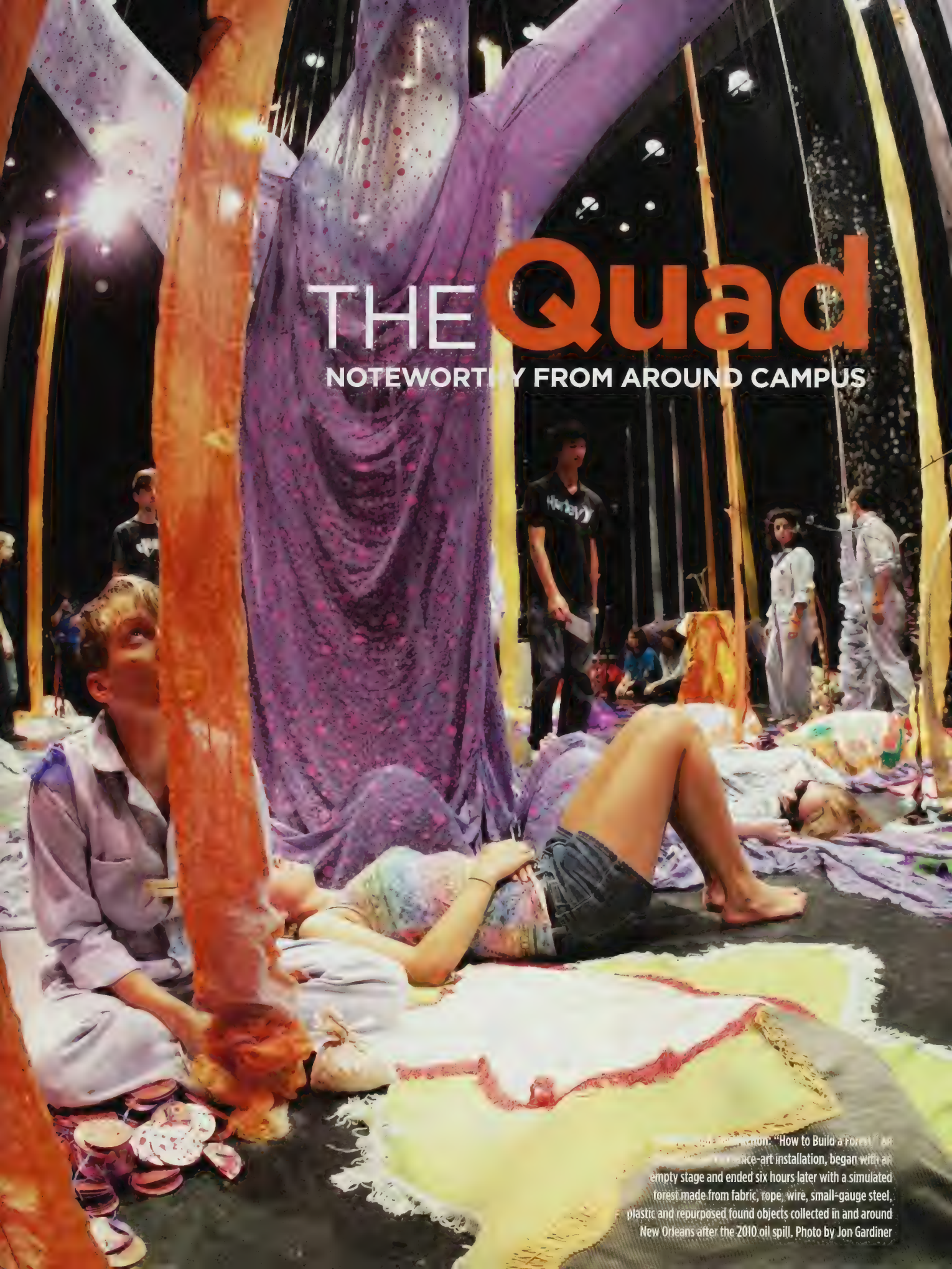
—Robert J. Bliwise, editor

CORRECTIONS

The July-August issue "Muse" section entry about Derrick Heggans implied that he was the sole executive producer of *Third and Long: The History of African Americans in Pro Football 1946-1989*. Director and cowriter Theresa Moore of T-Time Productions, which produced the film, is also an executive producer.

The "By the Numbers" column in the September-October issue incorrectly reported the percentage of Latino/a students in the Class of 2016. Latino/a students comprise 6.9 percent of the freshman class.

Our list of Duke alumni competing in the 2012 Olympics (September-October) overlooked Ola Sesay D.P.T. '04, who competed for Sierra Leone in the women's long jump. Sesay was the flag-bearer for Sierra Leone, which has never won an Olympic medal.



THE Quad

NOTEWORTHY FROM AROUND CAMPUS

...region: "How to Build a Forest." An
...installation, began with an
empty stage and ended six hours later with a simulated
forest made from fabric, rope, wire, small-gauge steel,
plastic and repurposed found objects collected in and around
New Orleans after the 2010 oil spill. Photo by Jon Gardiner

BY THE NUMBERS

One view of Duke's bustling social and intellectual life is the university's online events calendar (calendar.duke.edu). Here, we take a look at what the calendar offered in October:

158

Lecturers, musicians, artists, and others not affiliated with Duke who were featured in campus events

5

Faculty lectures given in dormitories

29

On-campus film screenings

9

Percent of campus events advertising free food and beverages

30

Events held at the Sarah P. Duke Gardens, the most for any single campus location

2

Stargazing outings sponsored by the physics department at the Duke Teaching Observatory

\$20

Cost to participate in a chicken-processing workshop held at the Duke Farm (chicken included)

“During the campaign I would often say that our future is not in Afghanistan, and it’s not in Iraq. Our future is how prepared we are as a nation—that’s economics and that’s education—to meet the needs of the twenty-first century.”

—Former Utah Gov. **Jon Huntsman**, in a Terry Sanford Distinguished Lecture titled “America 2012: Challenges and Opportunities Abroad”

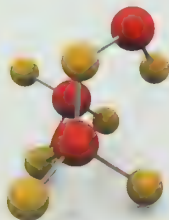


“Overall, the female characters in *Game of Thrones* are no smarter or stupider than the male characters; intelligence seems to be distributed randomly across the sexes in the series, as it is in real life. (Now that’s progress!)”

—**Ann Marie Rasmussen**, professor of Germanic languages and literature, on female archetypes in the popular series (The Huffington Post)

“In his telling, Bill was a brilliant mess, Hillary gave him discipline, and from this sinner-rescuer complex, the drama unfolded.”

—*The New York Times* Sunday Book Review on history professor **William Chafe**’s new book *Bill and Hillary*, which documents the often-turbulent marriage and political alliance of the Clintons



“Students who in years past would have flocked to Wall Street are considering careers in engineering and technology. Suddenly, science is sexy.”

—**Vivek Wadhwa**, director of research at the Center for Entrepreneurship and Research Commercialization at the Pratt School of Engineering (*BusinessWeek*)



For them the bell tolls: Kenny Anunike (84) and Brandon Connette (18) haul off the Victory Bell after Duke's dramatic win over North Carolina.

Jon Gardiner

“After three years, a game like this against North Carolina, you couldn't write a better script. Someone needs to make this a movie.”

—Senior receiver **Conner Vernon**, moments after a fourth-down touchdown pass with 13 seconds remaining gave the Blue Devils an improbable 33-30 win over North Carolina, guaranteeing Duke's first bowl appearance since 1994

“I was going to get a haircut.”

—Duke professor of medicine **Robert Lefkowitz** on what he had planned to do on October 10 before receiving an early-morning phone call informing him he had won the 2012 Nobel Prize see feature, p. 22

**“I'm not smart enough to actually go to Duke;
I can only play people who go to Duke.”**

—**Rob Lowe**, father of Duke freshman Matthew Lowe, on his fictional role as Duke graduate Sam Seaborn in *The West Wing* (Duke Student Broadcasting)



“[Students] have grown up in a mash-up culture in which art, music, film, programming code, and ideas are constantly blended and reblended, posted on Facebook, tweeted, and retweeted so that ideas iterate rapidly. In this world, the lines delineating creativity, borrowing, and innovation from stealing, cheating, and a lack of integrity are anything but clear.”

—**Noah Pickus** and **Suzanne Shanahan**, director and associate director of the Kenan Institute for Ethics, reacting to reports of widespread cheating at Harvard (*The Chronicle*)



Lessons from Buck: Trustee David Rubenstein evoked the spirit of James B. Duke during the keynote address at the annual Founders' Day ceremony in Duke Chapel.

'Let Them Chase Us'

Rubenstein channels James B. Duke on Founders' Day.

David M. Rubenstein '70 was seeking a little inspiration. What he found, he told a packed Duke Chapel on Founders' Day, was a message from beyond: a hopeful vision for Duke's prolonged success.

In his keynote address at the Founders' Day celebration, Rubenstein, vice chair of Duke's board of trustees and a renowned philanthropist, admitted he'd gotten a supernatural assist in thinking about Duke's future. He'd gone into the chapel to visit the sarcophagus of James B. Duke, where, he said, he'd received an e-mail message from the founder's spirit, suggesting Duke's greatest strength was its distinctive character.

"The world does not need two Harvards or two Stanfords or two Princetons," said Rubenstein, "reading" from James B. Duke. "It needs one Duke. We do not need to chase these schools. Let these schools—and others—chase us."

Rubenstein said Duke's distinctiveness begins with an education that is designed to do more than funnel students into professional careers. "Duke needs to make certain it educates its students in how they need to think for themselves, how to reason, how to adapt to a changing world, how to communicate effectively, how to solve problems, how to lead, how to innovate and create, and how to improve their community, country, and world," he said.

Founders' Day saw the presentation of the University Medal for Distinguished Meritorious Service to trustee emerita Rebecca Trent

Kirkland '64, M.D. '68 and longtime faculty member and former vice provost Judith L. Ruderman Ph.D. '76. Kirkland, the great-granddaughter of Washington Duke, served as a professor and administrator at Baylor College of Medicine, where she helped to reshape the school's medical education. Ruderman directed the Duke Office of Continuing Education and University Summer Session for twelve years and served as vice provost for academic and administrative services from 1995 to 2009. She is currently a visiting professor of English at Duke.

"The world does not need two Harvards or two Stanfords or two Princetons."

The weekend also included the official launch of Duke's \$3.25 billion capital campaign, "Duke Forward: Partnering for the Future." About 700 donors and university officials attended an event September 29 to inaugurate the campaign and elaborate on its strategic goals. Gifts and pledges during the campaign's two-year silent phase have already raised nearly 40 percent of the campaign's goal.

"The generosity and vision of our supporters have propelled our rise to the very top tier of universities," President Richard H. Brodhead said during the launch. "Through Duke Forward, we will capitalize on our university's spirit of innovation and partnership to train the leaders and problem-solvers our world requires."

The Coursera Experiment

Online courses will enhance Duke—but never replace the classroom experience.



“This is a great course and I am excited it is only the beginning.

I’m highly impressed and grateful for education like this.

You have no idea how much this course is affecting me on a very personal level.

These comments were written by students taking a course, “Introduction to Genetics and Evolution,” taught by Duke professor Mohamed Noor. As you can see, it’s a lively class, taught by a brilliant professor who presents challenging material with passion and inspires his students to want to learn more. But you won’t see these students walking across the quad to class. In fact, most of them—and their 31,000 classmates—have never been to Durham, never set foot on campus, never met Professor Noor in person. Around the world, they’re taking the class online, for free, through a company called Coursera.

This past summer, Duke announced a partnership with Coursera, and this fall Duke is offering ten not-for-credit online courses, which have attracted 320,000 students from 120 countries. Some of the students are in high school; some have Ph.D.s. Some are looking to build up their expertise in a field with direct relevance to their academic or professional paths; others are motivated by pure intellectual curiosity. Upon successful completion of the course, students will receive a certificate, but no Duke credit or degree. Of course, they’ll have the satisfaction of acquiring new knowledge, engaging in discussions, and mastering a complex subject.

Clearly, there is a great hunger for learning outside a formal classroom. But why is Duke stepping in to feed this hunger? I would answer that Duke has embarked on this online venture for three main reasons.

First, we see the online environment as a sphere for experimentation where faculty can develop and pilot new teaching methodologies. If the pedagogical innova-

tions prove successful, faculty members can devise ways to import these ideas back into their Duke classrooms. Professor Noor, who is the Earl D. McLean Professor and associate chair of biology, plans to teach the same class on campus this spring. Using the videos he’s already produced for his Coursera course, he’ll ask students to master the content knowledge before they come to class, and he’ll devote classroom time to discussion and problem-solving. Known as a “flipped classroom,” this model has been demonstrated to promote a deeper level of learning.

Second, as one of the thirty-three universities participating with Coursera—including Brown, Princeton, and Stanford—Duke can provide educational opportunities to people around the world. We see this mission as a natural extension of Duke’s commitment to knowledge in service of society. No matter what their background or experience with formal schooling, students enrolled in the Coursera courses can learn, grow, expand their horizons, and connect with fellow knowledge-seekers, either online—mostly in English but also in Russian or Greek—or in person, through the many “meet-up” groups that have sprung up from Boston to Budapest to Bangkok. Duke is proud to be part of this venture and views it as a compelling role for a leading university in our complex world.

Our third reason for pursuing this experiment is that it enables Duke to project itself and its values of excellence through the domain of online education, drawing the attention of many people around the globe to our world-renowned faculty and their teaching. The 31,000 students enrolled in Professor Noor’s class equal the number of students who applied for undergraduate admission last

year. In this arena, we have room for everyone. These students now have a direct experience of Duke and a connection to Duke, perhaps for the first time. And they see Duke as the kind of institution that shares its knowledge and faculty with a generous hand.

Alumni may worry that as Duke faculty offer courses for free, we risk devaluing a Duke degree, but I do not think there are grounds for this concern. The best online education will never replace the education through face-to-face, living relationships that a great residential university provides. It’s revealing that even as we make this foray into online education, we’re also restoring the West Union building on West Campus—a brick-and-mortar commitment to the importance of lived community. The revitalized West Union will have inviting spaces for students to share a meal, collaborate on a project, plan a conference, or simply hang out with friends. The environment will facilitate all kinds of interactions, scheduled and unscheduled, among students and faculty with shared interests. (Professor Noor himself is frequently seen lunching with students.) This richly personal learning milieu holds the key to the value of a Duke education.

In the rapidly changing landscape of online learning, it makes sense for Duke to proceed cautiously. But we believe our early participation will yield insights about the nature of learning that will benefit our campus community. The best strategy for Duke is not to regard online and in-person education as rivals. We’ll serve Duke best by figuring out how to combine the best of online instruction with the best of face-to-face education—a worthy challenge for a great university.

—Richard H. Brodhead



Right where he belongs: Duke undergraduate student Jamal Edwards with fellow first-year students on Duke's East Campus

Blazing a Trail

First-generation students get help adjusting to Duke.

When Jamal Edwards '16 was admitted to Duke during the early-decision period last fall, the California native was so excited that he couldn't wait to get to campus. But as enrollment neared, he says, "I began to get stressed about all the logistics."

Such freshman jitters are normal, but for students such as Edwards, the first member of his family to attend a four-year college, the adjustment to Duke can pose particular challenges. So-called "first-generation" college students—of which there are about 125 in the Class of 2016—are trailblazers, with no template of family experience to help them navigate college life.

"Just the fact that I am at Duke leaves me speechless."

To ease the transition, Duke launched a pre-orientation program for first-generation students this fall. Edwards was one of fifty-three freshmen who participated in the inaugural program, which included information sessions on financial aid, campus jobs, buying books, sticking to a budget, time management, and working with faculty members and academic advisers.

The sessions grew out of an informal collaboration between the Academic Resource Center (ARC) and Counseling and Psychological Services (CAPS). Based on input from current and former first-generation students, the offices formed the 1G Network in 2009 to offer advising, peer mentoring, and social opportunities for the approximately 500 first-generation undergraduates. Throughout the year, 1G students are invited to community dinners and faculty networking sessions, as well as more informal get-togethers. The pre-orientation workshops were added in a partnership with several other campus offices.

"ARC and CAPS are very focused on the 1G network as a community," says ARC director Donna Hall. "At the same time, there are institutional efforts to make individuals in the 1G population aware of the services available to all Duke students."

Edwards, who aspires to be a primary-care doctor, says being part of a 1G community at an elite university is a tremendous source of pride. "Just the fact that I am at Duke leaves me speechless," he says. "It's comforting to know that I've got a whole village of supporters, people I can reach out to who are experiencing the same things I am."

—Bridget Booher

Still Hiring

Career Fair adds employers, diversity.

Duke's annual Career Fair often can resemble a trading floor, with its chaotic buzz of sharply dressed young men and women in search of a deal. Despite the shaky economy and a weak job market, this fall's fair was no different. More than 100 employers filled three levels of the Bryan Center, and they were descended upon by hundreds of students, all looking for a handshake that would secure their post-graduation success.

But the Career Fair isn't quite the trading floor it used to be. Once dominated by financial and investment firms, the fair fields a more-diverse crop of recruiters these days. Among the traditional financial employers such as Duff & Phelps are booths for outfits such as Abercrombie & Fitch, USA Baseball, and Yext, a tech company run by a Duke alumnus.

That may be a reflection on a financial industry still recovering from meltdown. But it's also part of an intentional effort to widen the field at the Career Fair, says William Wright-Swadel, Fannie Mitchell Executive Director of career services. He says Duke has expanded the number of employers at the main career fair from sixty-nine four years ago to 109 this year, and his office has been purposeful about shaking the perception that the fair is strictly for the suit-and-tie set.

"We've worked to diversify, yet students still think it's highly investment-firm oriented. But if you look around, that's not the case," says Wright-Swadel.

At the same time, Duke's career center has spun off several smaller, interest-specific fairs throughout the year. The Pratt School of Engineering and the Department of Computer Science co-sponsor Tech Connect, a less formal event geared to connecting students and technology employers. A Non-profit and Government Career Fair is held in October, while the Career & Summer Opportunities Fair, along with the Just-in-Time Fair, are held in January and April, respectively, for students who need more time to develop their career aspirations.

That doesn't make the job market any easier. But for anxious seniors, it's at least a comforting message that there's more than one road to the job of their dreams.

—Dan Altman

A Warehouse's Second Act

Former linen center is converted into the Arts Annex.

Inspiring is hardly the word most alumni would assign to the old Duke Linen Service Center, a nondescript warehouse off Campus Drive near East Campus. Gray and spare, the building befits its utilitarian roots as the site where massive quantities of campus bedding were laundered.

But this fall, the building reopened with a loftier ambition. A renovation project has converted the space into the Arts Annex, a 10,000-square-foot haven for student arts groups. The interior, which most recently had been used for storage, now features two enormous rooms with sprung dance floors and wall-to-wall mirrors, as well as a visual-arts studio. Outside, a rainbow of new cloth banners frames a path up the hill from Campus Drive, leading students to an ample courtyard.

The annex adds much-needed rehearsal and gathering space for

groups that fall under the newly formed duARTS, the umbrella organization for Duke's six arts councils. The building's spartan functionality allowed for some thoughtful touches: The two performance studios, for example, are the same size as the stages of Page and Reynolds auditoriums, allowing for precise choreography and rehearsals.

And student artists already have made their mark on the annex. "All of it was designed and laid out by students," says Caitlin Shaw, program coordinator for University Center Activities and Events and adviser to duARTS. She notes that the facility's spray-paint-and-stencil-inspired logo was a student design.

"I'd love for it to become a place for student artists to call a home on campus," she says.

—Elissa Lerner



Chain-link canvas: Attendees at the Arts Annex opening reception create a living mural by decorating a fence with materials provided by Durham's Scrap Exchange.

The Remarkable Cone Collectors

In the early years of the twentieth century, the Parisian cognoscenti sniffed at avant-garde artists Henri Matisse and Pablo Picasso. But Claribel and Etta Cone, sisters from Baltimore, bought their works anyway, assembling what would become known as one of the world's greatest art collections. More than fifty of the Cone sisters' possessions—including masterpieces by Matisse, Picasso, Gauguin, Renoir, van Gogh, Pissarro, and Courbet—are on display at the Nasher Museum of Art through February 10 as part of the traveling exhibition "Collecting Matisse and Modern Masters." The show offers an intriguing look at the Cone sisters' lives, including a virtual tour of their adjoining apartments.

Modern master: Matisse in his apartment at the Place Charles-Felix in Nice, 1934

lives, including a virtual tour of their adjoining apartments.



Henri Matisse Archive. All works by Henri Matisse seen in archival photograph © 2012. Succession H. Matisse / Artists Rights Society (ARS), New York.

ON THE PLAZA

Finding His Path in Nursing

After frustrating stints as a paralegal and as an intern at an engineering firm, Kevin Momber was looking for meaningful work where he could make a difference in people's lives. Inspired by a friend who was planning a career in nursing, he enrolled in an accelerated bachelor of nursing program in Michigan. While earning his degree,

Kevin Momber M.S.N. '14

Hometown:

Grand Rapids, Michigan

he volunteered at a local clinic that catered to uninsured patients. From that experience

he was struck by the wide disparity in health-care delivery that exists in this country.

Now pursuing his master's of science in nurse anesthesia at the School of Nursing, Momber is aiming to do his part in combatting those inequities. Awarded Duke's full-tuition University Scholarship, he has worked in the pediatric intensive-care unit and volunteered with Camp Kaleidoscope, a camp for children with chronic and terminal illnesses. He is considering earning a doctorate as well.

Eventually, Momber hopes to work with Médecins Sans Frontières (Doctors Without Borders), the international medical humanitarian organization. "I want



Meeting a need: Momber hopes to work with underserved communities.

to work directly with underserved populations, but I also want to help communities improve the effectiveness and efficiency of their health-care systems," he says.

—Bridget Booher

The Disappearing Immigrant Entrepreneur

Duke expert warns U.S. leadership in high-tech may suffer.

One of the most potent sources of growth in the U.S. high-tech economy has been foreign brainpower. Immigrants were responsible for more than half of the start-up launches in Silicon Valley between 1995 and 2005—and more than one in four new engineering and technology ventures nationally.

But Duke's Vivek Wadhwa says that trend has stagnated, putting the country's leadership in high-tech innovation at risk.

Wadhwa, director of research at the Center for Entrepreneurship and Research Commercialization of the Pratt School of Engineering, documented the unprecedented decline in immigrant-founded start-ups in a study for the Kauffman Foundation, a Kansas City-based nonprofit that supports entrepreneurship and education. The report shows the percentage of new U.S. companies with a foreign-born founder has slipped from 25.3 percent to 24.3 percent since 2005. In Silicon Valley, the trend is more pronounced, with just

"The U.S. risks losing a key growth engine just when the economy needs job creators more than ever."

43.9 percent of start-ups having a foreign leader, compared to 52.4 percent in 2005.

"The U.S. risks losing a key growth engine just when the economy needs job creators more than ever," says Wadhwa, who published his findings in a book titled *The Immigrant Exodus: Why America Is Losing the Global Race to Capture Entrepreneurial Talent*.

One exception to the trend comes from India. Although founders in the study hailed from more than sixty countries, 33.2 percent of them were Indian, an increase of 7 percent in 2005. After India, immigrant founders represented China (8.1 percent), the United Kingdom (6.3 percent), Canada (4.2 percent), Germany (3.9 percent), Israel (3.5 percent), Russia (2.4 percent), Korea (2.2 percent), Australia (2.0 percent), and the Netherlands (2.0 percent).

Wadhwa says the U.S. can counteract the trend with reforms in immigration policies targeted to encourage foreign-born entrepreneurs to stay in the U.S. "It is imperative that we create a start-up visa for these entrepreneurs and expand the number of green cards for skilled foreigners to work in these start-ups," he says. "Many immigrants would gladly remain in the U.S. to start and grow companies that will lead to jobs."

BOOKBAG

LIT320S: SOCIAL MOVEMENTS AND SOCIAL MEDIA

The course: Associate professor of literature Negar Mottahedeh conceived the idea for the course after the 2009 post-election crisis in Iran, when protesters used sites such as Twitter, Balatarin (the Iranian-based social network), and YouTube to instantaneously share information and plan their actions. "Social media doesn't create movements, but it allows for ease of organization," she says.

The goal: The seminar compares the role of social media in movements and uprisings, both historical and contemporary. Discussions trace the evolution of social media from newspapers to the radio to Facebook and Twitter and explore the effect the proliferation of social media has on current events and social figures.

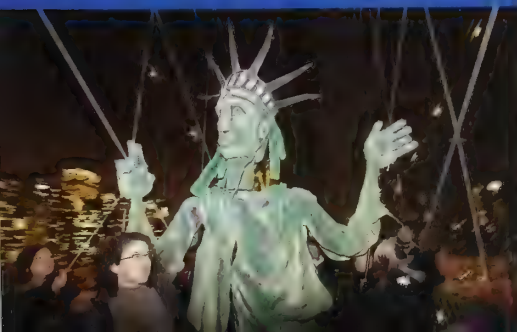
There is usually an ongoing world crisis for students to evaluate.

crisis for students to evaluate. Whether it is the Arab Spring or Occupy movements of 2011, or this fall's protests throughout the Middle East against an anti-Islam YouTube video, students get an inside perspective on how social media is playing a critical role in important world events.

Assignment 1: Students read social media expert Clay Shirky's book *Here Comes Everybody*, which discusses the use of social media in organizing crowds, as well as other current analyses. For their semester-long project, they pick a single movement, historical or current, and track the use of social media, presenting their research to the class at the end of the semester.

What you missed: In a recent class, students watched *Handsworth Songs*, a documentary film about the 1985 race riots in the Handsworth section of Birmingham, England, providing a launching point for discussing race riots that erupted in the same area in August 2011.

—Ryan Hoerger



Case of the Missing Sonata

Duke grad student cracks a century-old musical mystery.

When Angela Mace A.M. '08 sat down at a piano in the Nelson Music Room in early September, she awakened a forgotten bit of musical history. The sonata she played, a lyrical nineteenth-century composition known as *Ostersonate*, or "Easter Sonata," had been performed before—but possibly never under the name of its rightful composer, Fanny Hensel.

Hensel, the elder sister of German composer Felix Mendelssohn, was perhaps every bit as talented as her brother, but gender stereotypes prevented her from earning wide recognition as a composer. For nearly 200 years, the sonata, written in 1828, has widely been attributed to her brother, even though Hensel's letters and diary describe the sonata as hers.

Mace began unwinding the musical mystery as part of her doctoral research in musicology. After studying Hensel's papers in Berlin, she tracked down an original manuscript of the sonata at a private collector's home in Paris. In 2010, she traveled to Paris to inspect the score, which was not signed by its author. But Mace was able to match its handwritten title to Hensel's letters and diary, proving Hensel composed the piece.



Hensel: Finally getting her due



Rewriting musical history: Mace's discovery proves Hensel's compositional authorship.

"Finding the manuscript is definitely one of the most exciting moments of my career so far," says Mace.

But the discovery is more than just a historical footnote, says music professor R. Larry Todd, who has written a biography of Mendelssohn and advised Mace on the research. He says the sonata, which had garnered little attention in the classical-music world, belongs in the company of Beethoven, Schumann, and Liszt.

"We usually think of nineteenth-century European music as familiar enough terrain," he says. "Occasionally, though, a forgotten or lost composition comes to light, and the circumstances of its history prompt a reappraisal of the conventional wisdom."

And that's why Mace is expecting that her performance of Hensel's *Ostersonate* will be the first of many. "This discovery helps us re-evaluate who Fanny was as a composer," she says, "and to put her in place next to her brother as one of the major composers of the nineteenth century."

The Bard of the Demand Curve

Learning economics from William Shakespeare

On the surface, it's not unusual that John Forlines III assigns his students to read *Julius Caesar*. It is, after all, one of the great literary works in history.

But Forlines '77, J.D. '82 is an investment manager, and his students are economics majors. When they read Brutus' famous line, "There is a tide in the affairs of men, which, taken at the flood, leads on to fortune," they don't discuss its eloquence or metaphorical flourish. They're talking about market timing.

The course, "Shakespeare and Financial Markets: Why 'This Time' Is Never Different," was the brainchild of Forlines, the chief investment officer of JAForldines Global, who is guest-teaching this semester in the economics department. A longtime Duke supporter with deep roots on campus—his late father, John Forlines Jr. '39, was president of the Duke Alumni Association—he wanted to offer a unique perspective in his first teaching experience at Duke. And so the former English major turned to the Bard.

Although Shakespeare wrote more than 400 years ago, Forlines says his insights on human nature are highly relevant to understanding the vagaries of modern finance. The human behaviors and policies that have caused market bubbles in bursts in recent years are "the same ones Shakespeare addressed in most of his plays."

Students read *Henry V*, for example, for its lessons on optimism—both its positive role in fueling capitalist activity and the dangers that lurk when it morphs into overconfidence and hubris.

Julius Caesar becomes a primer on the economic effects of regime change and the struggle of commoners against the power of the few. And when he wants to warn students about the innate human desire to label a cause for every occurrence, he rolls out *The Tempest*, a stormy tale of manipulation and redemption.

"Luck and randomness have been shown to play far more important roles in finance, politics, and the global economy," Forlines

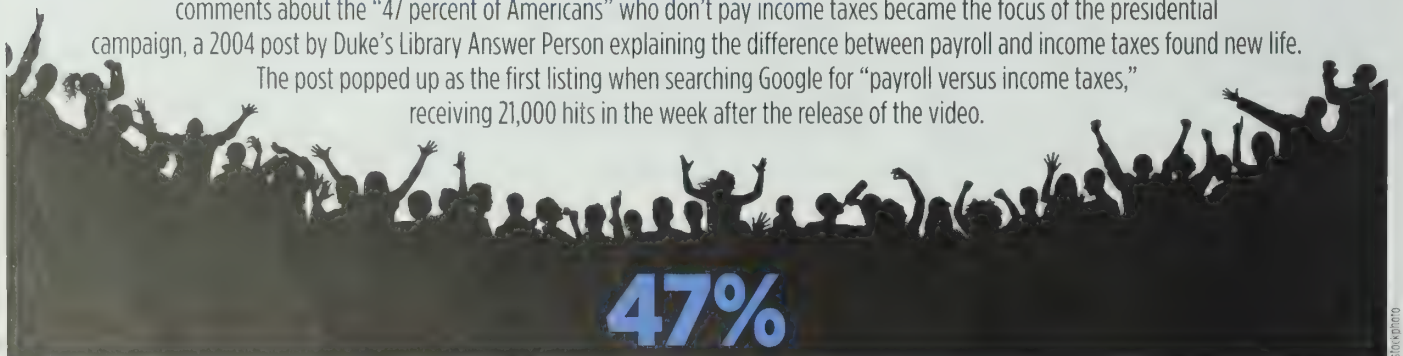


Stormy times: Can *The Tempest* teach students about market behavior?

says, "and Shakespeare knew it. It's a good thing to remember the next time some financial 'wizard' tells us this or that investment/economic plan is the answer."

FOOTNOTE ►►

Here's why librarians never throw anything away: When Mitt Romney's videotaped comments about the "47 percent of Americans" who don't pay income taxes became the focus of the presidential campaign, a 2004 post by Duke's Library Answer Person explaining the difference between payroll and income taxes found new life. The post popped up as the first listing when searching Google for "payroll versus income taxes," receiving 21,000 hits in the week after the release of the video.



A Historian's History

Franklin papers find a fitting home.

Duke has cemented its place as the primary keeper of John Hope Franklin's legacy with the acquisition of the late historian and former Duke professor's personal papers.

The collection, filling more than 300 boxes, includes diaries, correspondence, manuscripts, research files, photographs,

and video recordings from throughout Franklin's career as a historian, activist, and leader. One of the twentieth century's most distinguished public scholars, Franklin is widely credited with transforming the study of American history through his scholarship, while helping to transform American society through his activism. President Clin-

ton awarded him the Medal of Freedom in 1995. He died in Durham in 2009.

The materials, donated by Franklin's son and daughter-in-law, will become part of Duke's John Hope Franklin Research Center for African and African American History and Culture, which already houses a smaller set of papers given by Franklin in 2003.

PLANETDUKE | Peru

Duke in Peru: At a Glance

Current students who were born in Peru:

17

Peruvian nationals working at Duke:

3

Alumni living in Peru:

56

Number of undergraduate students who traveled to Peru with university programs in 2011:

29

Key Duke connections:

- **DukeEngage** project focusing on biodiversity conservation and public-health outreach in Urubamba
- John Terborgh, James B. Duke Professor of environmental sciences and director of Duke's Center for Tropical Conservation, operates the **Cocha Cashu Biological Station** in the Manu National Park in southeastern Peru. The station hosts international researchers conducting biodiversity and ecological research.

Biomedical Research on the Banks of the Amazon

Surrounded by a thick, green blanket of Amazonian rainforest, Iquitos, Peru, is the largest city in the world that cannot be reached by roads. Only a small airport and the Amazon River, which snakes away toward Brazil, connect its nearly 500,000 residents to the larger world. But that hasn't stopped William Pan from making Iquitos a home base for his research.

Pan, an assistant professor of global environmental health, has spent much of the past five years in Peru, where he is working to understand how development and environmental changes are affecting the spread of diseases such as malaria. Part of his work focuses on modeling how people and disease-carrying mosquitoes are moving through the rainforest to predict where and among whom the disease may arise. His data are helping Peruvian health officials evaluate malaria-prevention efforts and target new areas for intervention.

But another lasting edifice of Pan's work in Iquitos is that of a 100-year-old Spanish tile building on the banks of the Amazon, where Pan and a handful of U.S. scientists have set up a sophisticated lab for biomedical research. Pan pooled resources with collaborators from Johns Hopkins, Tulane, and the Peruvian NGO Prisma to buy the building, a relic of Iquitos' late-nineteenth-century rubber boom, and outfit it with equip-

ment for studying disease-causing bacteria, viruses, and parasites. The lab has hosted two Duke grad students who are conducting research in Peru and typically employs about twenty people, who are paid from the researchers' grants.

"I wouldn't exist without the lab," says Pan, who came to Duke in 2011, the same year the lab opened. "It gives us a permanent presence, and it allows us to hire the best people in the community to work with us."

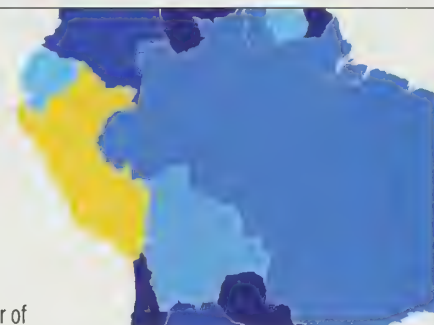
A statistician by training, Pan has hiked and boated hundreds of miles through the rainforest to collect mosquitoes and meet with residents living in malaria-prone areas. And while he says working in-country is not always the most comfortable approach to statistics, it's the most effective one.

"You can theoretically design a study from your table," he says. "But in the field, there are tons of things that go wrong, and there are nuances that you get only by seeing how the data are collected. I just feel if you want to be a statistician and you want to interpret your data correctly, you have to be there."

—Michael Penn



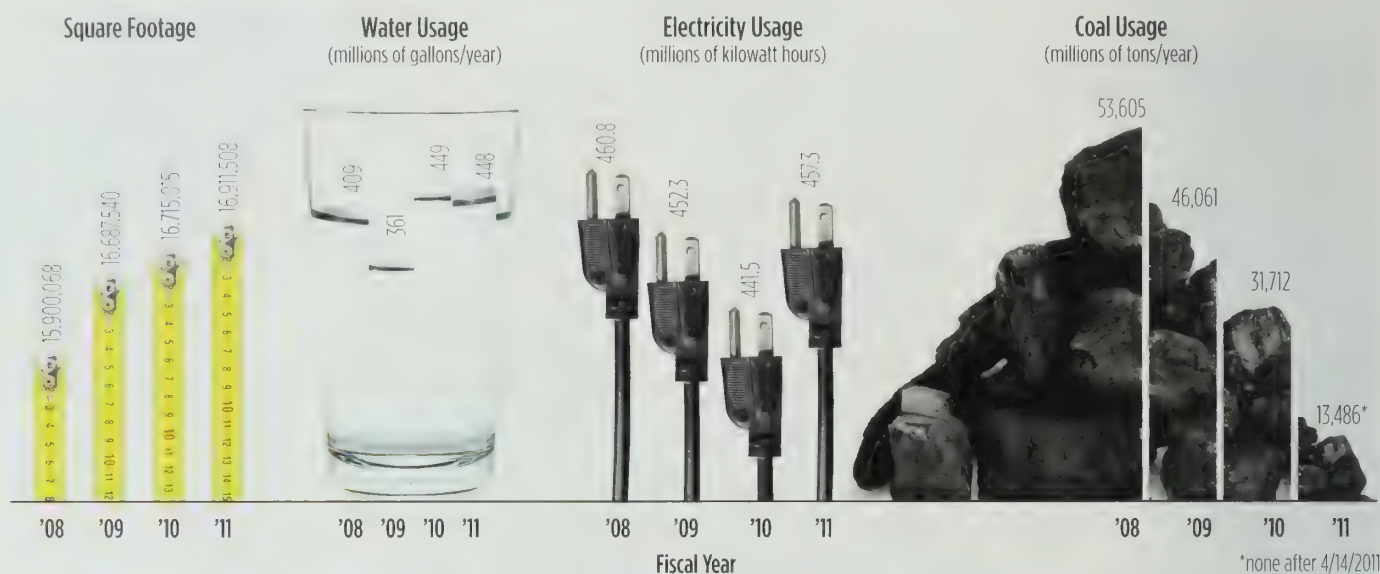
Tracking malaria: Collecting blood samples from Peruvian fishermen



DUKE360

Growing Lightly

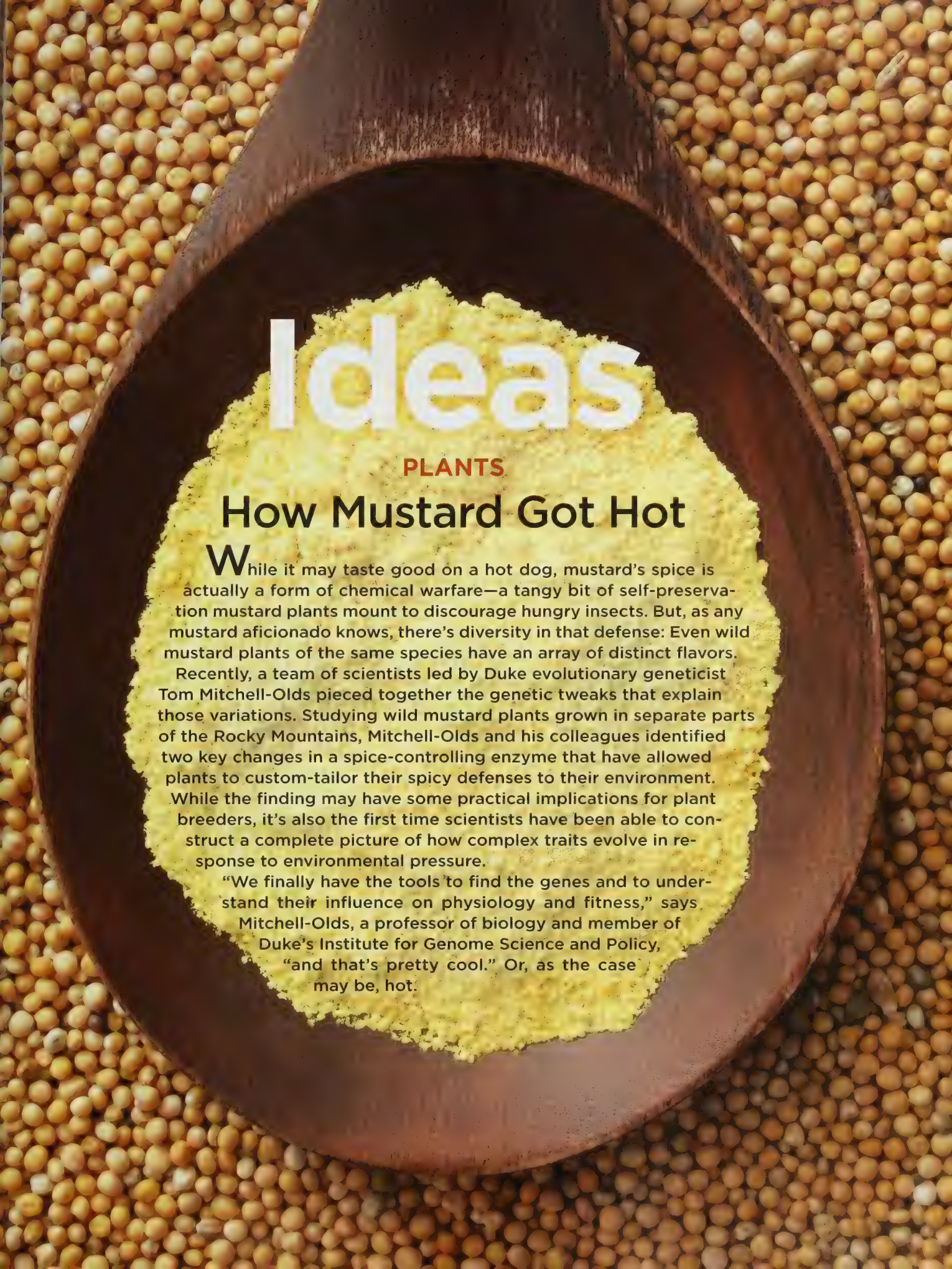
Adoption of Duke's environmental policy in 2005 launched a wave of sustainability efforts aimed at responsible use of natural resources. In the years since, despite adding more than 1 million square feet of new building space, those efforts have helped Duke toe the line on its use of water and power.



NOTABLE



- Duke has announced three appointments to leadership positions at Duke Kunshan University in Kunshan, China. **Liu Jingnan**, former president of Wuhan University, will serve as chancellor of DKU, and **Mary Brown Bullock**, former president of Agnes Scott College and a scholar of U.S.-China relations, will serve as executive vice chancellor. **Nora Bynum '85** has been appointed vice provost for DKU and China initiatives. Bynum previously served as Duke's director of global strategy and associate vice provost for global strategy and programs.
- John Aldrich**, the Pfizer-Pratt University Professor of political science, received the Frank J. Goodnow Award from the American Political Science Association. The award recognizes distinguished service to the profession and the association.
- G. Ralph Corey '70**, physician at Duke University Medical Center and director of the Duke Hubert-Yeargan Center for Global Health, was recognized for his work with Chinese physicians as one of this year's recipients of the National Friendship Award. The award is the Chinese government's highest honor for foreigners who have made exceptional contributions to China.
- Arny Davidson**, Ruth F. DeVarney Professor of English, has won the prestigious World Technology Award in Education. Davidson shares the honor with David Theo Goldberg of the University of California Humanities Research Institute for founding the Humanities, Arts, Science, and Technology Advanced Collaboratory (HASTAC), a national network focused on innovations in digital and collaborative learning.
- Richard Larrick**, professor in the Fuqua School of Business, was awarded the Robert B. Cialdini Award from the Society for Personality and Social Psychology. The award, which honors outstanding published research, is in recognition of Larrick's paper on the relationship between heat and hit batsmen in baseball.
- Thomas Petes**, the Minnie Geller Professor of molecular genetics and microbiology at the Duke School of Medicine, has been named the 2013 recipient of the Thomas Hunt Morgan Medal for lifetime achievement in the field of genetics from the Genetics Society of America. Petes specializes in the study of yeast as a model for understanding genomic instability and chromosomal abnormalities commonly found in cancer cells.



Ideas

PLANTS

How Mustard Got Hot

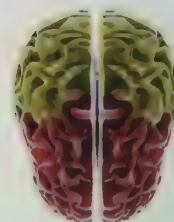
While it may taste good on a hot dog, mustard's spice is actually a form of chemical warfare—a tangy bit of self-preservation mustard plants mount to discourage hungry insects. But, as any mustard aficionado knows, there's diversity in that defense: Even wild mustard plants of the same species have an array of distinct flavors.

Recently, a team of scientists led by Duke evolutionary geneticist Tom Mitchell-Olds pieced together the genetic tweaks that explain those variations. Studying wild mustard plants grown in separate parts of the Rocky Mountains, Mitchell-Olds and his colleagues identified two key changes in a spice-controlling enzyme that have allowed plants to custom-tailor their spicy defenses to their environment. While the finding may have some practical implications for plant breeders, it's also the first time scientists have been able to construct a complete picture of how complex traits evolve in response to environmental pressure.

"We finally have the tools to find the genes and to understand their influence on physiology and fitness," says

Mitchell-Olds, a professor of biology and member of Duke's Institute for Genome Science and Policy,

"and that's pretty cool." Or, as the case may be, hot.



Fighting Cancer, Finding Nylon

When scientists at the Duke Cancer Institute launched a study exploring the biochemical changes inside brain tumors, they weren't thinking about how to make a better wind-breaker. But in a serendipitous twist, what they've learned about tumor growth may end up helping manufacturers produce nylon without relying on fossil fuels.

Duke research associate Zachary Reitman Ph.D. '12 and colleagues made the rather unusual connection while studying the development of brain tumors known as glioblastomas. They had observed

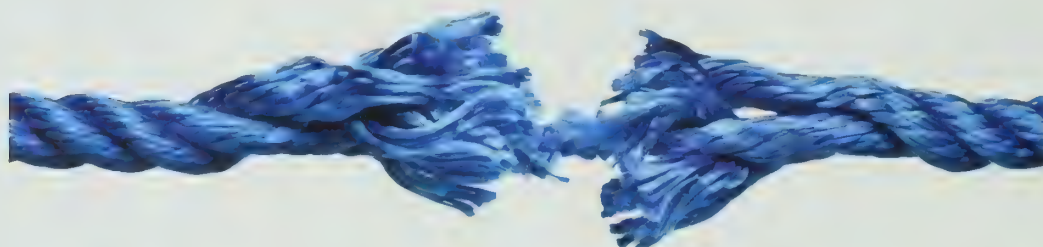
"This is the result of a cancer researcher thinking outside the box to produce a new enzyme and create a precursor for nylon production."

that some of the enzymes produced inside tumor cells were similar to a chemical required for the production of adipic acid, one of the essential components in the manufacture of nylon. Currently, adipic acid is made in a process that is highly dependent on fossil fuels, and researchers have been searching for natural alternatives.

Reitman's team hypothesized that inserting the genetic mutations responsible for glioblastoma into yeast would enable the microbes to naturally produce the enzyme needed to make adipic acid. They were right, demonstrat-

ing at least on a small scale that yeast can be engineered to produce the enzyme from inexpensive sugars.

"This is the result of a cancer researcher thinking outside the box to produce a new enzyme and create a precursor for nylon production," says Hai Yan, a professor of pathology and the senior researcher on the project. "Not only is this discovery exciting, it reaffirms the commitment we should be making to science and to encouraging young people to pursue science."



MATHEMATICS

Where the Brains Meet

It takes brains to be good at math—as in, two halves of one brain, working together. That's the conclusion of Joonkoo Park, a postdoctoral fellow in Duke's Center for Cognitive Neuroscience, who led a study linking communication between the left and right halves of the brain to mathematical ability. Park had subjects perform simple math problems while he studied images of activity in their brains. Those with especially chatty brains—where crosstalk flowed freely between left and right hemispheres—solved the problems faster. The finding may lead to new treatments for cognitive problems related to math.



WHAT WE'VE LEARNED: SADDAM HUSSEIN

Before arriving at Duke in July 2010 as an assistant professor of public policy, **Hal Brands** had been sifting through documents captured after the fall of Saddam Hussein's regime in Iraq for the Institute for Defense Analyses. The institute opened the papers to researchers in 2010, and several papers by Brands' team have been published recently, offering a behind-the-scenes glimpse of the authoritarian regime.

1. Everything was a conspiracy. Hussein's papers reveal a regime-wide obsession with conspiracy theories, with the most off-the-wall centering on Israel. One highlight: a belief that the Japanese Pokémon cartoons were a secret Mossad plot to spread pro-Jewish messages to Iraqi youth.

2. There's no "fun" in "dysfunctional." As with many dictatorships, Hussein's regime was messier and more prone to pathology than it appeared from afar. "From the outside, it seems like a finely oiled machine. But when you look inside the machine, you realize it's not the case," says Brands.

3. Baghdad was no place for a naysayer. When disagreeing with the boss can get you executed, disagreements tend to disappear. Only Hussein's deputy prime minister and close ally Tariq Aziz, a Christian who had spent time in the West, was able to push back against Hussein, and even he knew his limits, Brands says.

4. The enemy of an enemy is not always a friend. Hussein's wariness toward the U.S. was remarkably consistent. Even in the 1980s, when the U.S. tacitly supported Iraq's war with Iran, Hussein believed U.S. operatives were trying to assassinate him. Brands has written that Hussein's distrust of the U.S. may have influenced his decision to invade Kuwait in 1990, which precipitated the first Gulf War.

OFFICE HOURS

Eric Meyers: The Archaeology of Faith

In his new book, *Alexander to Constantine*, Eric Meyers argues that Hellenism gave Judaism, and later Christianity, a cultural vehicle for expressing the faiths to worldwide audiences. Meyers, the Bernice & Morton Lerner Professor of religion and director of Duke's Center for Jewish Studies, elaborated on archaeology and biblical narratives in a recent Office Hours interview.

On what we can learn from early Christian archaeology

Archaeology produces information that helps us reconstruct first and foremost the world of the New Testament. Individual items in the Gospels and in the New Testament can illuminate the manner of inhumation, the way of Jesus' burial and the rolling stone. The purposes in John 1 of the stone vessels at the wedding in Cana—we know that they are purity vessels. To the alert, caring, discerning eye, that means that those first Christians were still practicing purity laws within their tradition.

On Hellenism as one of the most creative forces in the history of civilization

Alexander the Great of Macedonia saw Western civilization, and even parts of the East, as coming together under one cultural roof. He came to Jerusalem, and the Jewish population there was so sick of the Persians that he came peacefully.... And it is this accommodation to both Greek civilization, and Roman civilization after that, that enabled, I believe, Judaism and early Christianity and their traditions to survive and prosper into the present day.

On the Second Temple of Jerusalem

The Temple of Jerusalem was one of the great wonders of the ancient world. It is a monument to Herod the Great, who was otherwise quite a nasty guy. He had nine wives and did a lot of very unmentionable sorts of things. But in his adoption of Greco-Roman culture, he had no peer.

On rethinking the destruction of Jerusalem

Jewish tradition sees in the first destruction of Jerusalem in 586 [B.C.E.] and in the second destruction of Jerusalem in 70 [C.E.] the main day of mourning in Jewish tradition. I do not subscribe to that.... Jews having to build their synagogues and learning to pray without animal sacrifice—establishing a whole new portable kind of religion that was not solely based in Jerusalem—was a creative response to tragedy.

Office Hours is produced by the Duke Alumni Association and the Office of News and Communications.

To see the complete interview, go to dukemagazine.duke.edu, or visit Duke On Demand (ondemand.duke.edu) and search for Office Hours.



Going with the flow: Ecohydrologists Martin Doyle, Brian McGlynn, Marco Marani, and Jim Heffernan in the Eno River

ENVIRONMENT

Dream Teaming on Water Systems

A river cuts across a landscape, meandering past cities and farms, collecting rainfall and runoff, and supporting all manner of life. Since the beginning of civilization, humans have depended on this fundamental movement of water—but they haven't always understood what was happening beneath the surface.

Martin Doyle, Jim Heffernan, Marco Marani, and Brian McGlynn would like to change that. The four—all of whom joined the Nicholas School of the Environment as professors last year—are part of an emerging branch of environmental science called ecohydrology, which studies the complex interactions between water and the ecosystems it touches. By its nature, the interdisciplinary field has implications for water conservation and management, commercial land use, and environmental policy.

Because ecohydrology cuts across all three of the Nicholas School's research divisions, the school elected to hire the four as a team, recruiting scientists with complementary skills who could collaborate on wide-ranging problems. The result is what the school's magazine dubbed the "Dream Team" of ecohydrology: Doyle specializes in river science and policy in the southeastern U.S.; Heffernan is an ecologist who has developed innovative new sensors for measuring environmental change; Marani is an expert in mathematical modeling who has studied the dynamics of Venice's famous lagoon; and McGlynn is a hydrologist known for his field research on mountain stream systems in the American West.

Rather than set up individual labs, the four moved into a shared space to facilitate the exchange of ideas. "Almost within a matter of weeks, there was this immediate, easy synergy," says Doyle, who spent the past ten years at the University of North Carolina at Chapel Hill.

"Almost within a matter of weeks, there was this immediate, easy synergy."

Doyle says the team approach is expanding the scale of each professor's individual research. On one end, Heffernan's advances in sensing technology are giving his new colleagues more detailed data on factors such as contamination levels, making it far easier to examine how water quality changes in a specific creek over the course of a day. But the team members hope to use their combined expertise to look more expansively at systems as well. Doyle and Marani, for example, have cowritten a grant proposal to examine the effect of multi-year droughts on water systems in the entire southeastern U.S.

But it's not just the professors who are seeing the benefits of the cluster approach. "We've been able to get stunningly good applicants to grad-student and postdoc positions," says Doyle. It seems one lasting effect of the Dream Team may be a deep bench.

The Trail to Duke

In an annual tradition, incoming freshmen get away from it all—before it all starts. | By Doug Clark

Kavya Durbha '16 struggled down a natural stairway of rocks and roots through a rhododendron forest. Drizzle glanced off her waterproof jacket. Her boots skidded in mud, her thirty-pound wilderness backpack unbalancing her every step. It was the eleventh day of her Duke experience, and so far she had hiked through storms and watched dawn rise from the peak of one of North Carolina's tallest mountains. Not bad for someone who hadn't even yet moved into her freshman dorm.

Durbha was participating in Project WILD (PWILD), a Duke pre-orientation program that annually leads approximately eighty incoming freshmen on a two-week

The student blinked. Indeed, the arrow on the sign pointed ambiguously between the path dropping into the gulley and another following the ridgeline.

Lepa began to laugh: a brazen, self-assured guffaw that Durbha had first heard eleven days earlier on her arrival at Duke.

Durbha had been sad to leave her home in Greenville, South Carolina, but she had felt giddy as she met her fellow PWILDers on the K-ville lawn. The International Baccalaureate class at her high school had only about twenty people, and she had fantasized all summer about an invigorated social life with her 1,700-plus new classmates. But as she mingled, she noticed that she was one of the slightest freshmen.

Lepa was practicing the PWILD philosophy of "non-directive leadership": PWILD leaders teach participants the skills they need to successfully complete a trip—like orienteering and bivouacking—but never do the actions for them. Freshmen determine their own hiking routes and camping locations while leaders stand back, waiting for teachable moments and standing ready to intervene in case of emergencies.

Still, sometimes leaders bestow Socratic hints. "What should the land look like?" Lepa asked.

At the beginning of the trip, Durbha had been frustrated by PWILD's topographic maps. But now she could read the elevation lines and symbols. The ranger

"We want to go north, but both trails go north."

backpacking trip through Pisgah National Forest. Begun in 1974, PWILD is one of the oldest wilderness pre-orientation programs in America. It is also one of the few programs run completely by students, who manage its finances, handle logistics, and lead hiking crews of seven or eight freshmen on the trails. The idea is for freshmen to gain confidence and forge relationships before arriving on campus, giving them a head start in acclimating to college life.

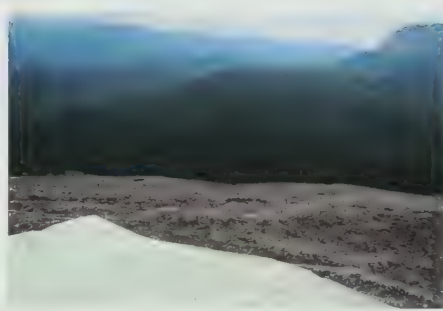
The trail leveled out in a clearing of red spruce pine trees and split into four tracks. The crew's goal that day was to reach the ranger station at the Pisgah Fish Hatchery, the end of the trail. Durbha and the rest of the freshmen were excited to return to Duke to matriculate with the rest of the 2016 class. Also, there had been rumors of bathrooms with running water at the ranger station, a luxury after more than a week of living in the woods.

One of Durbha's fellow hikers pointed to a path descending into a gulley. "That one," he declared.

"Don't you think you should check the map?" asked Veronica "Vern" Lepa '13, the crew's leader.

"Look at the sign: Fish Hatchery," the freshman said.

"Are you sure?" Lepa asked.



Durbha smiled with her lips closed to hide her braces. Though the PWILDers were ethnically diverse, she didn't see many other people of Indian descent. Worst of all, many of the freshmen were bragging about their backpacking experience; she had never even been camping.

But then that laugh rang across K-ville. The whole crowd shushed, the PWILDers all craning their necks, searching for the source of the ringing laughter. Durbha felt relieved: Not everyone here was serious and intimidating.

"Oh, don't worry, that's just Vern," a PWILD staffer told her.

Now, at the trail junction, Lepa directed the freshmen to check their maps and compasses. "We want to go north," one concluded, "but both trails go north."

"They do," Lepa said, grinning. "And—?"

station lay to the north, through a gulley descending from the junction. Her finger traced the route.

"Uphill or downhill?" Lepa asked.

"Down!" Durbha declared and explained her reasoning. After a brief discussion—it's part of the PWILD team-building philosophy that all decisions on the trail are made by consensus—the crew followed her into the gulley.

Lepa took up the rear of the group. As she descended the trail, her right foot settled naturally, but her left foot slammed down awkwardly, almost like she was stomping. Her shins and forearms were covered with scrapes, some raw and recent, others nearly healed. She wielded a trekking pole with her right hand, but her left hand was empty. Lepa has low-level cerebral palsy, which afflicts her left side.

When Lepa signed up for PWILD as a freshman, everyone, from her parents to her leaders, held their breath. On the trail, she endured numerous tumbles. But since her freshman year, Lepa has missed only one of PWILD's hiking trips, which include not only pre-orientation programs but also fall- and spring-break hikes. Today, she holds three PWILD leadership positions: alumni, outreach, and food director. (A few weeks earlier, while buying provi-



Roughing it: Kavya Durbha (in pink jacket) and her fellow PWILDers assess their location on a topographic map.

Doug Clark

sions for 150 staff members and participants, she spent more than \$600 on five-pound blocks of Cheddar cheese.)

For Lepa and other staff, PWILD is no small commitment. PWILD is unique among Duke's five pre-orientation programs in that it is active throughout the academic year, sponsoring weekly social events, a fall-break backpacking trip for disadvantaged children, and a spring-break expedition for Duke students. To prepare for the freshman trip, staffers return to campus a month early, often passing up internships and other career-related opportunities to work on the program. They are not paid, and in the weeks leading up to the trip, they sleep on the floor of the Intramural Building gym because dorms are not yet open. Still, every year PWILD has to turn away applicants.

Like many of her peers, Lepa returns because the connections she has forged in the woods have been some of the most enduring ties she has made at the university.

"You learn more about a person during a two-week trip than you might in years with them at Duke," she says.

An hour later, the trail the PWILDers had been following ended abruptly in a parking lot. Sweaty and foot-weary, they whooped and pumped their fists as they reentered civilization. Across the asphalt stood the ranger station—and its public bathrooms.

"Tell me they aren't closed," one of the group said. The bathrooms were known to shut at 4:45 p.m. It is PWILD tradition that no one wears a watch.

"I don't even want to see myself in a mirror," another moaned, but started toward the bathrooms anyway.

An elderly gentleman in the parking lot asked, "How long you all been out for?"

"Ten days!" Durbha and the other freshmen declared. Pride flooded her. She had done things she had never imagined she could do. But she also felt a twinge of sadness that she had only two more days in

Pisgah, at a group campground with the rest of the PWILD participants and staff. When she had stared at the map earlier, she had been intrigued by the names of the places she had yet to visit: Rough Butt Bald, Devil's Courthouse, Clawhammer Mountain, Graveyard Fields.... She hoped to hike them one day. But for now she walked with six new friends across the parking lot and onward toward her future at Duke.

Lepa watched her freshmen depart. She had told them to call her, or even just show up at her apartment, if they ever needed anything. She remembered her freshmen leaders and their concern for her every fall. Already, she was looking forward to calling them after the trip to boast that she had only slipped twice in the last two weeks.

Carefully, Lepa arranged her pack as a backrest and then sat and began unlacing her boots.

Clark '09 is a former PWILDer. He is a freelance writer based in Brooklyn, New York.

The Chemistry *of* Discovery

Duke's first homegrown Nobel Laureate, **Robert Lefkowitz**, on how science develops from asking big questions and accepting inevitable failure

By Robert J. Bliwise

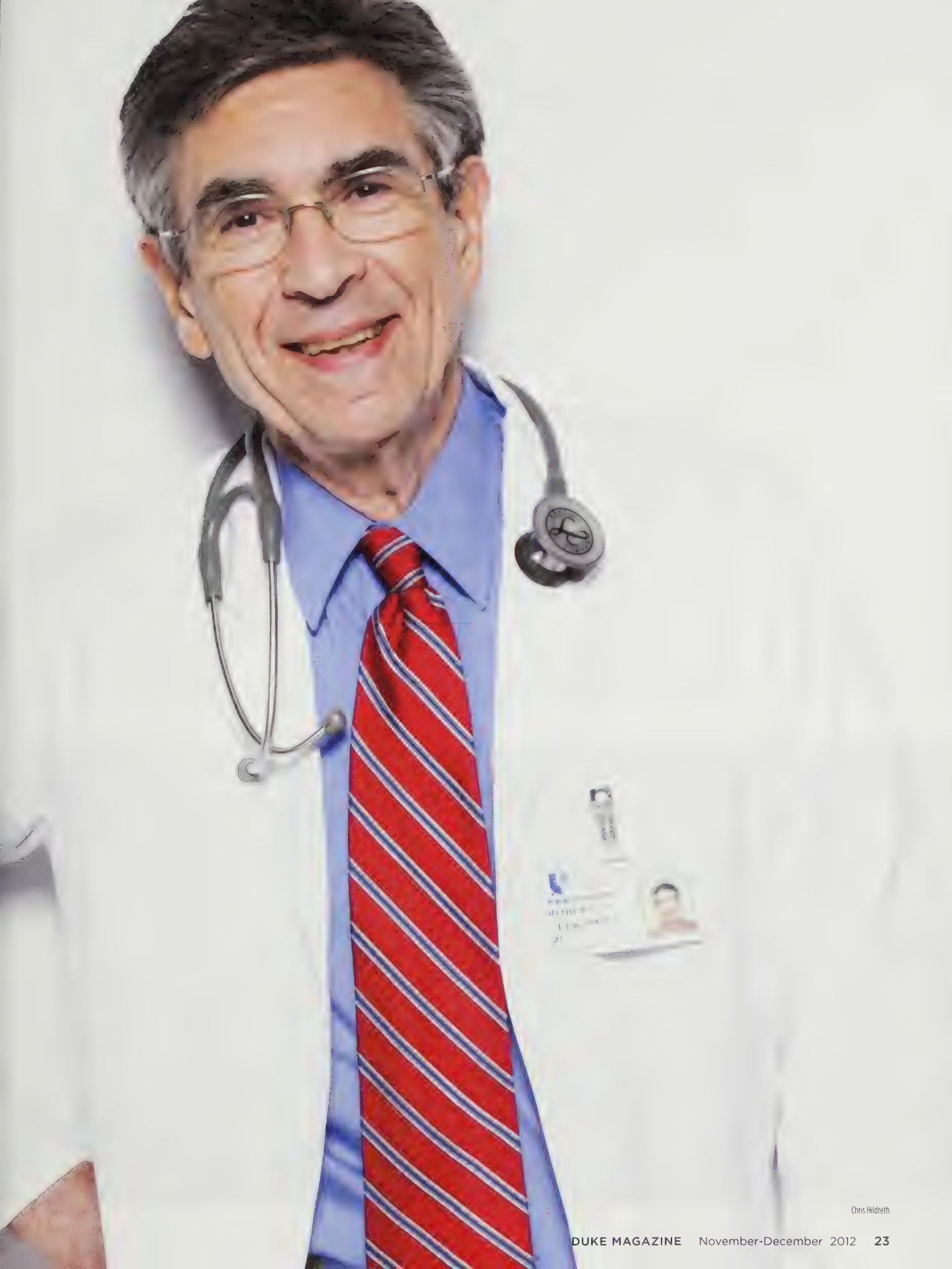
YOU'VE JUST WON THE NOBEL PRIZE.

Congratulations! So what's the first thing you do?

If you're Duke's Robert Lefkowitz, you start sorting through those congratulatory e-mail messages—some 1,500 within the first week after the announcement. You deal with the media interview requests, along with pleas for your signature on various worthy-cause petitions. With a large family to accommodate, you ponder how to distribute the strictly limited fourteen tickets to the Nobel ceremony in Stockholm. You start preparing your Nobel lecture.

You even think up jokes about getting your medal through the airport security line: "I was coming back from Hong Kong five, six years ago," Lefkowitz recalls. He had just received the Shaw Prize in Life Science and Medicine, which was \$1 million and a medal. "It's made out of eighteen-karat gold. I had it in my carry-on bag. Of course, they picked up that there was something in there, so they took it out, and the guy said, 'Oh, what a beautiful medal. What's that for?' And I said, 'The hundred-meter dash.'"

And, if you're Lefkowitz, you put aside your heavy-duty project of re-reading *Don Quixote* (a book he originally encountered in college). Lefkowitz says he feels a bit like the hyper-focused character Don Quixote; for him, creativity and audaciousness exist in a kind of feedback loop. He's a physician-scientist who embraces the technical term "chutzpah": "I'm probably working on the most challenging problems I've ever worked on. I have no idea whether I can solve them. But this is what I want to do, and I know damn well that if I can do it, it'll be a really big deal."



Chris Hildreth

The big deal for Lefkowitz has hinged on tiny receptors that snake in and out of the cell membrane and serve as one of the main methods of communication within the body—conveying chemical messages into the cell's interior from outside the membrane. For a long time, it remained a mystery how cells could sense their environment. Scientists knew that hormones such as adrenalin had powerful effects: increasing blood pressure and making the heart beat faster. They suspected that cell surfaces contained some kind of recipient for hormones. But, before Lefkowitz applied his focus to the problem, what these receptors actually consisted of, and how they carried out their assignment, remained obscure. As *Scientific American* put it, Lefkowitz's team "extracted the receptor from its hiding place in the cell wall and gained an initial understanding of how it works."

Scientists have identified roughly 800 different G-protein-coupled receptors, or GPCRs. The receptors react to a host of hormones and neurotransmitters; they regulate the beating of our hearts, the workings of our brains, and nearly every other physiological process. About 40 percent of all medications—used to treat conditions ranging from schizophrenia to stomach ulcers—target the receptors.

In October, Lefkowitz, a professor at Duke University Medical Center and a Howard Hughes Medical Institute researcher, along with Brian Kobilka HS '87 of Stanford University School of Medicine, received the Nobel Prize in Chemistry for their work on receptors. In the 1980s, Kobilka was a postdoctoral fellow at Duke working under Lefkowitz. From his clinical experience in cardiology, Kobilka sensed that receptor biology was becoming more important and

more interesting. "It was an amazing time to be in the Lefkowitz lab," he recalls in a late October conversation, just after the latest in his ongoing Skype chats with his mentor. "Of course, everyone who's trained with him probably says the same thing. With the people who were there and the techniques we were immersed in, there was no place in the world that would have better prepared me for my own future."

At a press conference the day of the announcement, Lefkowitz observed that this is Duke's first home-grown Nobel—but not the last, he predicted. The Nobel recognized work that Lefkowitz had done at Duke, where he's spent most of his career. "Duke was not the powerhouse in 1973 that we are today. And it never occurred to me that I'd be here for my entire career. But, you know, it worked very well, and at every stage I couldn't imagine leaving." He added, "If you were a fly on the wall in 1973 and now, my daily activities wouldn't look very different. The lab is bigger, but I've been pretty much doing what I've been doing," including "having a hell of a good time."

He also is celebrated for having trained some 200 graduate and postdoctoral students, many of whom have gone on to prominent roles in medical science. "Bob is very much a part of what a university is about, which is identifying talent and helping that talent grow," says Andy Wallace M.D. '59, former chief of cardiology at Duke, who had a major role in attracting him to Duke. "You don't get a Nobel Prize for training other people. But if there was one, he would be getting it, too."

Lefkowitz considers himself primarily a basic researcher. Still, his work carries a translational, or patient-centered, component.



"I like people who think they're lucky, because I believe luck is more a state of mind than anything else."



"If you're a basic researcher, your sole goal is to understand something. What's a receptor? What's its molecular structure? How is it regulated? How does it function? How does it signal? So it's not my intention to develop a drug or a treatment, or even to necessarily understand a disease. But it's an inextricable part of what I'm doing. I can't help it; I'm a physician. That's the way I think."

For Lefkowitz, it's made more sense to define himself in terms of the problems he was working on rather than the discipline-specific approaches he brought to them. "You could say I'm a receptor biologist. I think a lot like a biochemist. I'm certainly a cell biologist. Some would say I'm a pharmacologist or molecular pharmacologist. Am I a neurobiologist? Certainly some of the things we do are neurobiological in their importance. So I guess I'm kind of hard to pigeonhole."

Having grown up in the Bronx, New York, Lefkowitz was an undergraduate chemistry major at Columbia University. He went to medical school at Columbia's College of Physicians and Surgeons; he was led to cardiology in part because of his father's heart attack. His first research experience was in 1968, as a young physician. He had just finished his two years of clinical training and had gone to the National Institutes of Health for a two-year stint. (At the height of the Vietnam War, he had applied to the NIH for a clinical associate position and a commission in the Public Health Service.) Lefkowitz and a medical-school classmate named Harold Varmus shared a mentor, molecular biologist and cancer researcher Ira Pastan. As Lefkowitz recalls, Pastan told them, "I've got two interests. One is receptors, but we have no way to study them. And the other has to do with this new molecular biology stuff."

Varmus wound up with the molecular biology project; Lefkowitz, with the receptor project. "It was clear to me that the future would be the era of receptors," Lefkowitz says, "that these molecules had to be crucially important—crucially important—for biology and medicine."

Varmus, now director of the National Cancer

Institute, would win the 1989 Nobel Prize in Physiology or Medicine for discovering oncogenes, or genes with the potential to cause cancer.

Lefkowitz was recruited to Duke in the fall of 1972. By then he was a cardiology fellow at Massachusetts General Hospital, which had offered him a chief residency. Duke's recruiting efforts were led by cardiology chief Andy Wallace and James Wyngaarden Hon. '06, chair of medicine. Lefkowitz turned down Duke's starting offer. But Duke persisted, and eventually agreed to conditions—including a starting salary of \$32,000—that Lefkowitz thought would register as "outrageously" demanding.

For his part, Wallace (who later became dean of Dartmouth's medical school) recalls, "I had pretty much determined that cardiology needed a couple of people who would foster insights into the molecular-biology side of cardiovascular disease." He had been impressed with Lefkowitz's presentations to the American Heart Association. Lefkowitz, in turn, was ultimately drawn to the idea of starting a new lab and running it independently. "I remember the key recruitment visit was around the Duke-North Carolina football game in November of 1972," Wallace says. "It was a beautiful day. You couldn't have asked for better conditions to recruit someone who was going to face the New England winter."

At Duke, Lefkowitz's very first graduate student was Lewis T. "Rusty" Williams Ph.D. '77, M.D. '78, now executive chairman of Five Prime Therapeutics Inc., a biotech company that he founded. At Wallace's urging, Williams was led to Lefkowitz just as Lefkowitz was preparing to come to Duke. Williams watched the lab take shape, even before Lefkowitz had landed on the scene.

Williams has strong memories of Lefkowitz's passion for data; to Williams, a classic image from his lab days would be Lefkowitz standing over him and his fellow students as they all watched data spill out in real time. Williams "learned from the master," in his words, about crafting the compelling argument—whether

Friend, mentor, celebrity: Lefkowitz with longtime colleague and running partner Ralph Snyderman, then-medical student Erin Bressler M.D. '11, and—the day of the Nobel announcement—President Richard H. Brodhead and media representatives



Photos by Jared Lazarus



Jared Lazarus

the context is a scientific peer review or a business deal. He has one particularly vivid memory of Lefkowitz guiding him to speak about research findings, in front of hundreds, at a combined meeting of several academic-science societies. “From that I learned two things,” he says. “First, that our work together was interesting to scientists, that we were really at the forefront of something. And second, that Bob had confidence in me. Of course, he had me rehearse that presentation a hundred times.”

Early on, research was hardly an obvious course for Lefkowitz. “When I came to the NIH, I had never failed at anything in my life. I mean, in general, I was a top student. Now, for the first time in my life, I didn’t know what the hell I was doing. And so, the first six to nine months to a year—total failure. Total failure. Making no progress. I was given, in retrospect, a very difficult project, which might not have worked at all. And I just wasn’t used to that. And I concluded, erroneously, that I had no talent for this at all. But in the second year, things began to really work. And by the time I left at the end of two years, things were in high gear.

“What I subsequently came to realize is that a year’s failure is

Happy day: Lefkowitz hugs Donna Addison, his administrative assistant of thirty-five years, on the morning of the Nobel announcement.

nothing—nothing. I remember one prominent scientist telling me, ‘The difference between a really successful scientist and an average scientist is that for the average scientist, maybe

0.5 to 1 percent of his experiments work. For an absolutely fabulous scientist, it could be as high as 2 percent.’ At the time, I kind of discounted that. But it’s almost all failure, and accepting that didn’t come naturally to me. So I try to teach my students and fellows that they are going to encounter almost nothing but failure. But the thing about failure is that each failure teaches you a little something, and you build on it. Success is, in a very real sense, just the product of repeated failure.”

One of Lefkowitz’s closest scientific collaborators is Howard Rockman, a Duke professor in the areas of medicine, cell biology, molecular genetics, and microbiology. A few years after arriving at Duke in 1999, Rockman was doing an informal yearlong research retrospective with Lefkowitz. Rockman had pointed proudly to something like 75 or 80 percent of his lab’s projects coming to

fruition. As he recalls, Lefkowitz's reaction was that it sounded like "terrible science." Rockman asked him to elaborate, and Lefkowitz told him, "You're doing derivative science. If 80 percent of the stuff that you dream of comes to fruition, that means it's all derivative. You know the answers. Where are your bold ideas?"

Rockman says, "I walked out of there almost breaking down in tears. But it was an important lesson. He knew I could do better."

In that and other episodes, Lefkowitz came across as "a student of human nature," Rockman says. "What really makes him unique as a role model, a mentor, is that he really loves to understand the innate qualities that determine someone's potential. And then he gets you to realize what your potential is—it's essentially self-discovery. It's interesting. His love for research is all about curiosity and discovery. It's the same principles that lead him to be a fantastic mentor."

While Lefkowitz talks about reckoning with failure in science, his longtime friend Ralph Snyderman HS '67 sees Lefkowitz's career as driven by a form of scientific courage. Snyderman joined Duke's faculty in 1972, a year before Lefkowitz; after a stint at the biotech firm Genentech, Snyderman returned to Duke as dean of the medical school and chancellor for health affairs. "I think the issue of courage is what differentiates the really outstanding from even the very good and the good," Snyderman says. "By courage, I mean having a willingness to take risks, to spend time, effort, money, energy on pursuing a research or an experimental direction that is not proven and may be very difficult to prove."

When he and Lefkowitz became near-neighbors in their labs, "I would hear people shrieking with delight as they found some experimental data," Snyderman recalls. "It was a certain culture and level of activity and frenzy of energy—really, an optimistic feeling that everything happening there was the greatest thing in the world."

For decades, beginning in 1977, Snyderman and Lefkowitz were running partners, with avid conversations all the way—including the subject of the Genentech offer to Snyderman and the competing lure of academic medicine. Snyderman estimates that they ran more than 60,000 miles together. "His personality is one of intense engagement with his friends, and if he believes in something—well, I don't know if you've ever heard the word *Nudzh*. It's a Yiddish word. And Bob nudges you until he kind of wears down your resistance. He nudged me for a long time until I started running."

When new trainees come into his lab, Lefkowitz nudges them toward big thinking. He tells them, "Look, I could give you any number of projects to work on that have a 100 percent chance of succeeding. They will be publishable in decent journals. But they won't be of any great significance. Or we can work on something together that has a much lower chance of succeeding but that, if it does succeed, will really make a difference. And what do you want to do?"

Virtually everybody chooses the latter course, he says. Part of the reason is that he works to weed out those who are "too safe." As he considers potential trainees, he looks not just for smart and motivated individuals with fabulous recommendations, but also for "a sense of adventurousness," as he puts it. "I'm looking for a sense of optimism. Confidence, but not overconfidence or arro-

gance. And, at some point in the conversation, I'll say to them, 'So tell me, are you lucky?' I get some very interesting answers. I like people who think they're lucky, because I believe luck is more a state of mind than anything else."

Among Lefkowitz's early trainees was R. Sanders "Sandy" Williams M.D. '74, who—fresh from Duke Medical School—worked in his lab for about three years, beginning in 1977. "He taught me what science at the highest level really is about," Williams says, "and what one needs to do and needs to think about that creates the opportunity for scientific discoveries that really matter. The other thing I'd say about Bob is, as much as anyone on the planet, he's been a champion for physicians doing science. By his own example, he shows that physicians can do science at the very highest level."

Trained, like Lefkowitz, as a cardiologist, Williams served six years as dean of Duke's medical school. He's now president of the J. David Gladstone Institutes, an independent nonprofit biomedical research institute. Williams says lessons from Lefkowitz's lab have informed his career. "The first lesson is, fall in love with a problem or a question. Bob's own career has been to understand how information moves from the outside to the inside of the cell. And he has relentlessly pursued that understanding from the start."

There were other Lefkowitz-derived lessons: "Scientists can often go wrong by accepting a result that seems to prove your pet hypothesis. You need to be your own harshest critic." And this: "You should understand that the work you do in medical science is important, that it's serious business, but you should have fun while doing it. Make the hard work not seem like hard work because you're having such a good time." According to

Williams, "I've never seen anyone who showed the joy of discovery more than Bob."

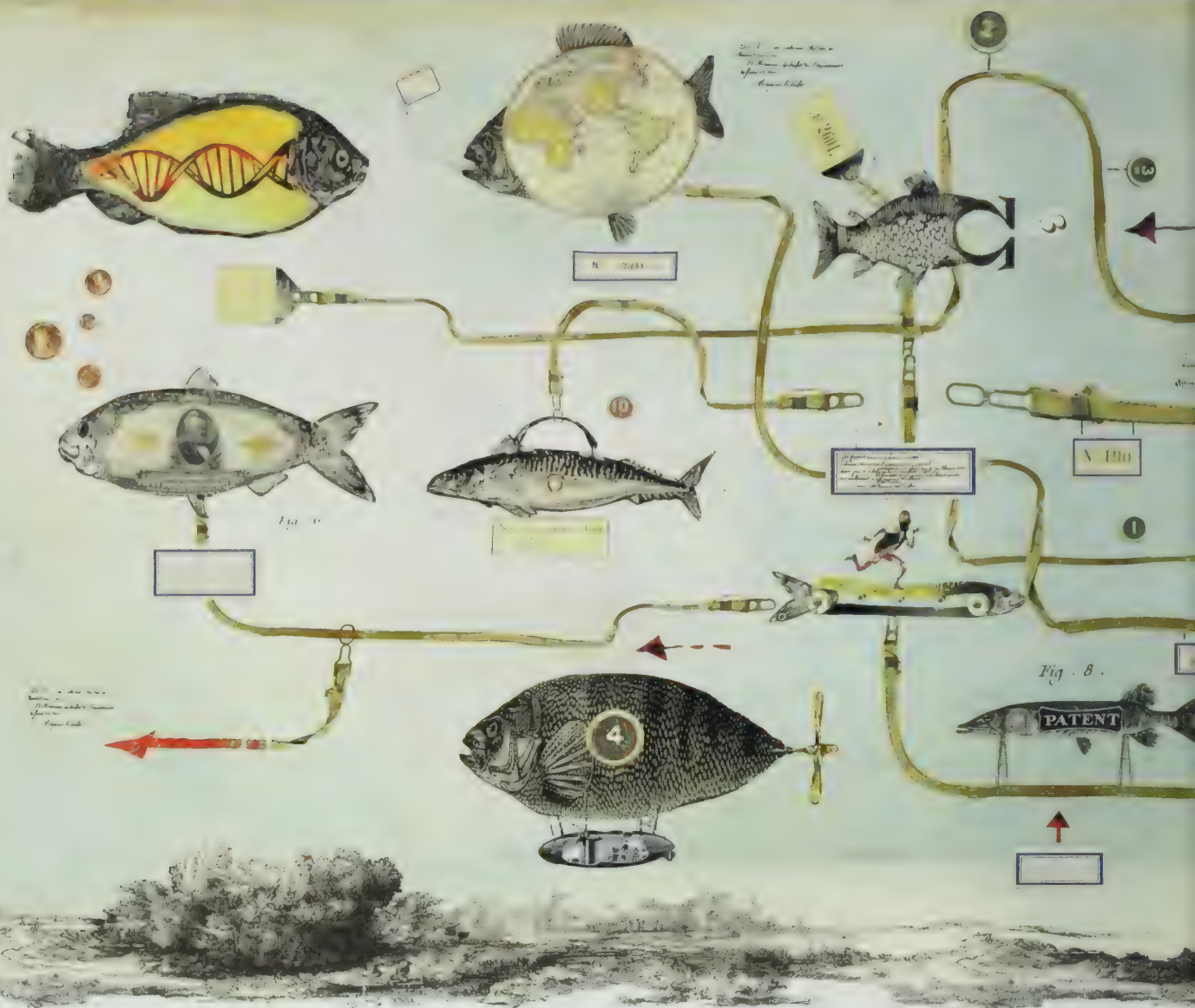
One of Lefkowitz's enjoyable involvements is judging a student essay contest for the Bronx High School of Science, his alma mater. The students are asked to reflect on the scientist they most admire. Who would be his choice?

"I guess it's not a terribly original answer, but somebody who always fascinated me was Albert Einstein. With all his mathematics, his core insights came out of sheer intuition. Lay people have this image of scientists as being these dry individuals—you follow the scientific method, and it's all very logical. That's one aspect of it. But the other, most interesting aspect is that the real flashes of insight are almost always intuitive. One of my favorite quotes from Einstein is that 'Imagination is more important than knowledge.' That's why he's so fascinating to me."

In describing his theories, Einstein embraced metaphorical pictures—trains, elevators, beams of light. And Lefkowitz is an avid storyteller. One of his favorite stories resides in the fact that in medical school, he and his fellow students were obliged to provide their own microscopes. Those microscopes were typically purchased from older students. His was pretty beaten up; the coarse and fine focusing knobs didn't work well together. But he learned to apply just the right amount of pressure to hold the focus. From that memory he produced his own guiding principle in science.

"So there you have my famous line: Focus. Focus. Focus. Focus. Lefkowitz's four keys to success." ■

**"It's not my
intention to
develop a drug
or a treatment.
But it's an
inextricable
part of
what I'm doing.
I'm a physician."**



The Tricky Academics of Eating

Martin Smith's class poses a simple question: Should I eat fish?
But answering it sends students into murky waters.

By BARRY YEOMAN • ILLUSTRATIONS BY BRUNO MALLART

On the first day of his marine-conservation course this past January, Martin Smith told his eight undergraduates that they would play a game. One student would wait in the hallway. The other seven would stand around a conference table and go fishing.

"A couple of rules," said Smith, the Dan and Bunny Gabel Associate Professor of environmental economics at the Nicholas School of the Environment. "No communicating with each other. No winks or nods, and certainly no overt discussion. Ab-

solutely no physically harming each other. If it comes down to where violence is going to be involved, just restrain yourselves."

Smith would stock the table with paper fish, he explained. The students had thirty seconds to harvest them. "Whatever's left on the table, I will double," he said. "Then you'll have thirty seconds to fish again." Each fish could be redeemed for one "participation point" toward the student's final grade. Smith shook an envelope, and paper cutouts wafted to the table. "The ocean has been seeded," he

said. "Are you ready? Go fishing."

Fourteen arms stretched and flailed as the students broke into a grabbing frenzy. Within seconds the table was bare—an imaginary ocean emptied of life. Smith maintained a straight face. "Now, Round Two," he said. "There are zero fish left on the table. I will double zero."

By now, the students realized that their competitive instincts had harmed their own self-interest. Smith welcomed the eighth classmate, Carolyn Groves '12, back from the hallway, and invited her to play alone.



Taking advantage of her monopoly, Groves removed no fish during the first round. During the second, she harvested a bounty.

"I guess Carolyn's probably different, right?" Smith asked afterward. He looked at her. "You care about marine conservation?"

"Yes," she said. Groves, an environmental science major, was earning a certificate in marine science and conservation leadership.

"So you've already signaled that you're spending some of your precious Duke

credits on protecting the oceans. The rest of you are, I take it, headed to Wall Street to perpetuate the next financial meltdown by getting rich as fast as you can, right?" The class laughed nervously. "No? Anyone else in the conservation certificate program?" Smith paused dramatically, mocking surprise as the seven initial participants raised their hands. "*All of you?* A group of marine-conservation students drove a fish stock to extinction—that'd make a nice headline, wouldn't it?"

This was how eight students launched into a semester-long exploration of a question framed in the capstone course's unofficial title: "Should I Eat Fish?" Like the game, the name was deceptively simple, hiding an ocean of complexities that such a question embodies. The name was also practical: Smith had planned an end-of-semester feast at his home, and the choice of entrées was up to the students. But the results of the fishing game already demonstrated that such a choice would not be easy.

Even after Smith declared a rematch, this time permitting students to talk, they still had trouble cooperating. The boisterous game offered a serious lesson: Every aspect of the food we eat is laden with complications. “What do you make of the claims that the problem of overfishing is the greed of the fishermen?” Smith asked. “Do you think that’s it?” The clear implication was *no*—that understanding seafood populations means studying globalization, regional governance, and our fundamental views of property rights and the commons. “For me as an economist,” he said, “this is the starting place.”

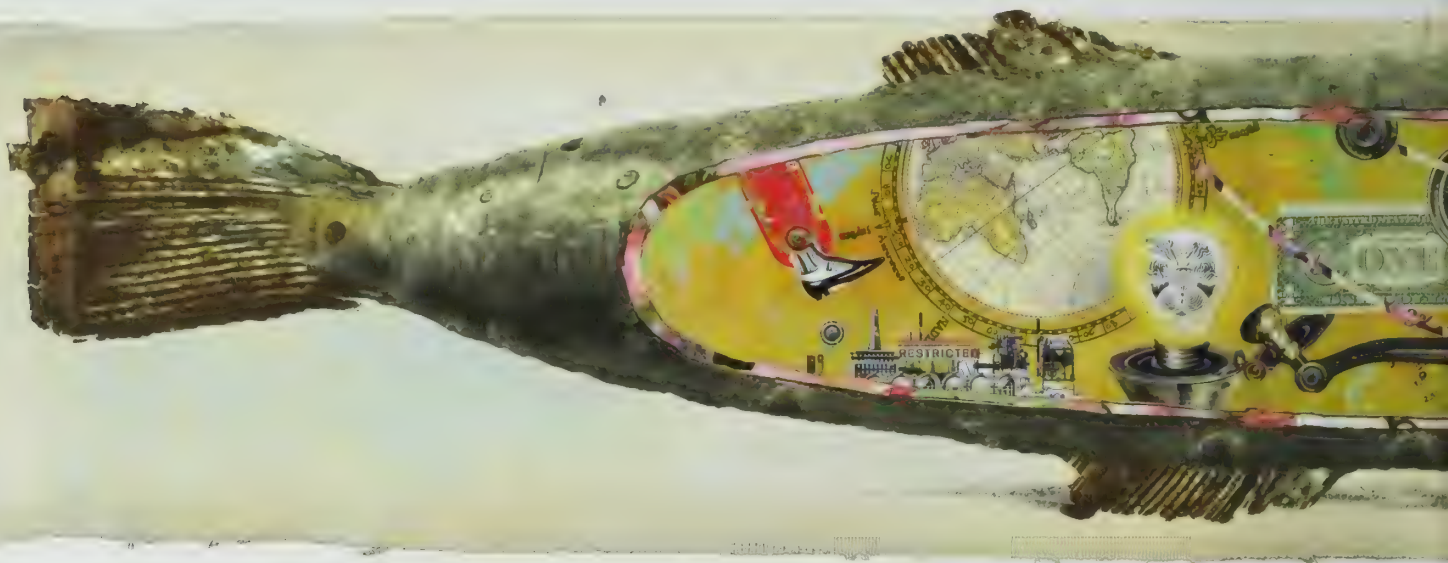
It was also the starting place for these environmentally literate undergraduates, who would spend the next fourteen weeks wrestling with nutrition, ecosystem health, community economics, world hunger, consumer theory, and animal welfare. They weighed competing and

The conversation about responsible eating is ancient. Evidence pops up throughout the world’s religious traditions: Muslim halal laws, Jewish kashrut, the vegetarianism of Jains and some Hindus. Around 500 B.C.E., the Greek mathematician Pythagoras (of $A^2+B^2=C^2$ fame) led a sect that eschewed meat, preaching, in the words of Ovid’s *Metamorphoses*: “How horrible a Sin/That entrails bleeding entrails should intomb!” The Pythagorean justification for avoiding flesh—that humans and other creatures are bound in a cycle of karmic reincarnation—was strikingly similar to Hindu thought, prompting hypotheses that one culture borrowed its worldview from the other.

The modern contemplation of this issue began in the 1600s, when European intellectuals suggested that animals “had a value independent from human interests,” says

of that dialogue. “What we’ve seen is the first time in about 300 years that the rightness and wrongness of eating meat, and how much we should eat, and how it should be reared, is something which everyone in society has a stake in,” he says. The timing, he adds, is hardly random: People talk about dietary ethics when their own food security is threatened. With the world population surpassing 7 billion, wilderness is being cleared at alarming rates for meat and dairy production. Yet hunger continues to grow, raising questions about our long-term ability to feed ourselves.

Amidst these deliberations, seafood has often swum in a netherworld of dietary contradictions. Jews allow the mixing of fish, but not other flesh, with dairy. When Catholics abstain from meat on Fridays and during Lent, they substitute seafood. The fish was considered a “cold, sexless animal” that lacked “the sanguine humors



sometimes counterintuitive information in the hopes of answering a seemingly simple question: What’s for dinner?

Or put another way: How do we make affordable, nutritious food choices that also minimize human and animal suffering and protect the world’s resources? That question has recently consumed not only Smith’s students, but also many within the university—and indeed, much of the world. It has spawned blockbuster books and documentary films such as *The Omnivore’s Dilemma* and *Food, Inc.* and inspired efforts to get more locally produced food in campus eateries. Yet the question is hardly new. Within its arguments are echoes that go back for generations.

Tristram Stuart, author of *The Bloodless Revolution*, a cultural history of vegetarianism. That basic principle launched a wide-ranging discussion that would feel familiar even now. “More or less without exception, every argument used today to defend vegetarianism had been developed before 1800,” Stuart says. The notion that crops used for livestock could more efficiently feed people? Read the eighteenth-century English theologian William Paley, a carnivore who nonetheless worried that, with the rise of meat consumption, “much...of the bread-corn, which went directly to the nourishment of human bodies, now only contributes to it by fattening the flesh of sheep and oxen.”

Stuart believes we’re witnessing a rebirth

that stirred desires,” Stuart writes, and the ethical ambivalence surrounding seafood seems to persist today. Many self-described vegetarians still put lox on their bagels or indulge in grilled shrimp.

Still, as Smith’s students learned, the issues surrounding seafood are no less complex than any other.

Of Smith’s students, Carolyn Groves, the solo fisher, was one of two vegetarians. Another student was the meat-eating son of a McDonald’s franchisee who hoped to follow in his father’s career path. The rest fell along the dietary spectrum in complicated ways.

“I didn’t like eating fish for a long time, but now I do,” said neuroscience major Cameron Zohoori ’12 during the first-day

introductions. “I’m maybe trying to convince myself that I still don’t,” Zohoori has thought about food ethics since high school, but didn’t change his diet while living under his parents’ roof. “When I got to college, I tried a flexitarian thing for a while—being mostly vegetarian, but not strictly so—and found it easy to evolve back to what I’d been eating before.” Now he was trying to eat more mindfully, with the assumption that a mostly plant-based diet creates a lighter environmental footprint at a time of growing population stress. “I also realized I wasn’t getting enough extra value—pleasure, really—out of meat to make it worth the cost.”

Zohoori, a Robertson Scholar, knew that eating fish provides health benefits. But he felt less clear about the environmental impact of harvesting from specific habitats. “There are guides you can use—‘this is a good alternative; this is something

studying at Duke’s Marine Lab in Beaufort, North Carolina, Reynolds helped teach conservation science to the children of commercial fisherman. Their teacher reminded her of the realities of the local economy. “It is expensive to install a turtle-excluder device on your nets. It is difficult when you have lots of licensing fees that a recreational fisherman might not have to pay,” Reynolds said. Those experiences gave her sympathy for both sides of what is often a polarized debate. “You really have to hold sustainability and the economy on an equal pedestal,” she said. “It’s important to figure out ways to make both work.” But while she tries to eat responsibly, sometimes an alluring fish is hard to resist.

“Wow, isn’t that tough?” Smith asked. “We have this sense of what the right thing is, but this other thing is tugging at us.” When we inconvenience ourselves to be-

‘Yum, I’m eating it now’ vs. ‘I’m feeling like I’m doing the right thing, and it’s maybe making some difference.’ Pretty hard to get people to make those kinds of choices.”

“The good news is,” the professor continued, “you probably didn’t eat bluefin tuna. Unless it was a *really* expensive restaurant.”

“It still feels bad,” Reynolds said. “It’s still on the Monterey list.” She was referring to the Monterey Bay Aquarium’s Seafood-Watch wallet cards and smartphone apps, which urge consumers to avoid the fish entirely.

“Ah, yes,” Smith said. “We’ll get to those lists.”

Like much of the world, Duke’s campus has experienced an uptick in food awareness, though not a universal one. “Our numbers at McDonald’s have not declined,”



you should avoid’—but it’s so hard to know,” he said.

Even when you do know, it’s hard to divorce food from pleasure. “I had tuna in sushi last night,” biology major Mason Reynolds ’13 told the class. “I know that you’re not supposed to be eating bluefin,” an overfished cluster of species often caught with gear that accidentally kills sea turtles and marine mammals. “But at the restaurant, I wasn’t thinking, ‘What can I pick that’s most sustainable?’ I was thinking, ‘What on this menu looks good?’”

Reynolds is no environmental lightweight. When she was twelve, she attended a summer camp on Chesapeake Bay and witnessed the antipathy local crabbers felt toward conservationists. Later, while

have ethically, “there’s no instant gratification,” said Groves, the vegetarian. There might be a minuscule impact. “But I can’t see that. I can’t measure it.”

“Especially if it’s just you,” Reynolds added.

“It’s just a drop in the bucket,” Smith said. “If you had passed on the sushi last night, would it make a shred of difference?”

“Not really,” Reynolds replied. “The restaurant had already bought the fish.”

Smith explained that every consumer decision shifts demand slightly. “They might not order quite as much next time. So maybe it would make a teeny, tiny difference, but not one that you could perceive. So that becomes an abstract sacrifice:

says Larry Moneta, vice president for student affairs. “Rather than suggest some kind of comprehensive movement, what I sense is activist pockets. Even the protest movement around the Refectory suggests there’s an emerging subculture of students and others who are acutely aware of their food.” (The Refectory, a sustainable-foods café, closed its divinity school business, one of two campus locations, this past summer after a financial dispute with the university. The café has since reopened under new ownership.)

Moneta calls 2011-12 Duke’s “year of food.” Among its initiatives was the inaugural “University Course”—taught by faculty from across departments and open to all students—called “Food Studies: Inter-

disciplinary Approaches to Why, What, and How We Eat.” The curriculum included labor issues, food security, industrialization, and meat eating, and each class was followed by a relevant meal at the Rectory. Thirty minutes after registration opened, all seventy-five slots were filled.

The previous summer, incoming students read *Eating Animals*, Jonathan Safran Foer’s exploration of the issues informing his own journey toward vegetarianism.



Foer comes down hardest on confinement farms and industrial slaughterhouses—chronicling, for example, the skinning of cattle while they’re still alive. But he doesn’t spare seafood producers. He writes about salmon farms contaminated with sea lice, which “sometimes eat down to the bones on a fish’s face.” He lists many of the 145 species, including dolphins and sea turtles, killed by tuna fishermen. “Imagine being served a plate of sushi,” he writes. “But this plate also holds all of the animals that were killed for your serving of sushi. The plate might have to be five feet across.”

After that summer reading, “we saw perhaps a handful of students that decided to become vegetarian,” says Franca Alphin,

director of nutrition services at Student Health. But maintaining a healthy plant-based diet takes work. “They couldn’t just grab what they usually had, so it became somewhat of an inconvenience. Some didn’t realize that when you remove meat from the diet, the protein has to come from somewhere else.” As a result, Alphin says, “many of them, as the semester went on, went back to more of their routine eating habits.”

Smith’s course took the opposite approach from *Eating Animals*. Even when he covered the same topics—the accidental killing of non-target species or pollution caused by aquaculture—Smith stressed brain over gut. He assigned academic readings and filled his whiteboard with formulas and demand curves. “People can read advocacy on their own,” he says.

For Zohoori, that was a relief from the usual discourse. “I have heard a lot of the passionate moral arguments, and I think those need to be taken seriously,” he said in an interview. But it’s easy to tune those statements out when they strike a radical tone. “It’s valuable to be able to sit down

and analyze it from a lot of different perspectives.” Even without red-hot polemics about animal welfare, “there are other important reasons to reconsider the way that we eat and produce food.”

Take the issues of food security and global trade. One mantra of the current food movement is “local”—reducing shipping miles and supporting one’s neighbors are articles of faith. Yet seafood exports are essential to many developing economies. “Some countries are selling high-value products to the European Union and the U.S. and importing dried cod from Norway,” Smith told his class. “How many of you had dried cod this week? No? Didn’t have any dried cod stew? It’s very healthy protein, very cheap protein. Probably doesn’t taste as good as seared ahi.” Poorer exporting countries can use the surplus value of their premium seafood to “eat a little bit more than they otherwise would.” That sounds like a compelling argument for buying shrimp from Thailand or lobsters from Mexico.

But rather than make a slam-dunk case against locavorism, Smith teased out some caveats. “What are we worried about?” he asked.

“Is all that imported food really getting to the whole population?” asked Jess Lehigh ’12.

Exactly, Smith said. “What else?”

“Are they managing the stocks sustainably?” asked Zohoori.

Not everyone does. Bad stewards “might be liquidating their natural capital to get some trade benefit in the short run,” Smith said. “So we’re sitting here in a wealthy country, and we care about this. What’s to be done?”

“I guess we can stop buying exports,” said Lehigh.

“Stop buying exports,” Smith repeated. “Supposing the system worked the way we said at the beginning: Sell lobsters and buy dried cod. What’s going to happen?”

“[The poorer nation] can’t buy dried cod any more,” Zohoori said.

“Is that going to help people in developing countries?” Smith asked. “Probably not. But supposing there’s some corrupt official who’s exporting lobsters, taking the money, and lining his pocket. He has ten Rolls-Royces. Then all of a sudden that trade policy—the U.S. eschewing that country’s exports—is starting to sound a little better, especially if the resource is not managed sustainably.”

If the conversation ended inconclusively, that made it similar to many of Smith’s lessons. Its teachings embrace the ambiguity

that wallet cards and smartphone apps aim to cut through with color-coded labels—green is okay, yellow more iffy, stay away from red. But the cards' advisories only *seem* simple: In April, the class read an article by economist Cathy Roheim arguing that seafood guides from different organizations contradict one another. What's more, she wrote, using wallet cards can prove "frustrating" when supermarket and restaurant staff can't provide details like a fish's country of origin, whether it was farmed or wild, and what fishing gear was used to catch it.

With some purchasing decisions, like buying a used car, information clearly benefits consumers, Smith said. "But the complexity of boats in the water, fishing multiple species in multiple regions, supply chains, products that are substitutes, consumer preferences, buying things through supermarkets, consumer-supported fisheries, fish markets, going to restaurants—all that complexity—this information is somehow going to fix it all? I don't know."

Smith saved his animal-welfare lesson for the end of the semester. To provoke debate, he assigned a reading by historian Roderick Nash suggesting that, over time, civilization is moving along an ethical continuum from expanding human rights (outlawing slavery and discrimination, for example) to recognizing the rights of animals and even plants and rocks.

"Do you feel that there's a distinction?" Smith asked. "Or is that just where we happen to be sitting?"

"Suffering is the key metric," Zohoori said. "As far as we know, plants don't have nervous systems that allow them to suffer. At the same time, that's what people thought about animals at one point."

Smith zeroed in on animal rights. "What do you all think about this particular analogy to anti-slavery movements?" he asked. "How did that strike you?"

"I hesitate to think that, ethically, it's the same as the abolition movement, which at least now we recognize was about extending rights to those who are like us," said Zohoori. "This is very clearly about judging something that is *not* us." He paused to reflect—after all, he noted, not everyone considered American slaves "like us" 150 years ago. "It's hazy, I guess," he concluded.

"What about fish?" Smith asked a few minutes later. "Where do fish fit in our spectrum of their propensity to experience pain or suffering?"

"You pull them out of the water and just let them suffocate to death," said Martin Steren '12, whose father is the McDonald's franchisee. "Most food industries kill the animal reasonably quickly, with electroshock or something. Fish, you let them sit out there until they die."

And what about industrial aquaculture? Is it as troublesome, from a humanitarian perspective, as confinement beef or poultry farming? "I think you could make an argument that a cow would be more aware of how bad its life is than a fish would," Groves said. "But personally I think they're the same."

"I think they're different," Zohoori said. "The feelings felt by a cow, which are hard to define, are probably greater than that by a fish, and definitely greater than that by a shrimp. But we don't understand enough to define it clearly. It's hard to draw lines and decide what's okay." Whether it's livestock or farmed fish, Zohoori said, there's one clear commonality: "The lives the animals are leading are not their natural lives. They're not allowed to have the kinds of lives that they're supposed to lead."

Yet fish conjure less empathy, said Jazmin Garcia '12, because they don't communicate their suffering. "The way we know when an animal's in pain is because it makes a lot of noise," said the biology major. "Fish don't make noise. It's just going to flop there. It's not going to scream at you. But a cow will."

The debate continued for thirty minutes before someone asked Smith a question that had gone unasked all semester: "What do *you* think?"

"When I step out of my pragmatic self, I love the idea of extending rights to nature," the economist said. "I even get into the *Star Trek* aspect of it, [where] they could synthesize their food. But in the world that we live in today, I default to trying to minimize suffering. It causes me a little bit of heartache to think about my own food choices, and whether eating fish occasionally might be perpetrating significant amounts of suffering—getting caught with a hook in [one's] face. I struggle with it a lot."

That day, Smith popped the big question: *What's for dinner?* Specifically, what's on the menu for the class' semester-ending feast?

The trick, of course, was that this class was not designed to produce epiphanies. The students most visibly struggling with

ethical eating, Zohoori and Reynolds, continued to grapple (and still do). Fish should be on the menu, everyone agreed. But did the special occasion merit a delicious species that faces major population stress? (No.) What about responsibly farmed salmon? Or hatchery-raised salmon? (Maybe.)

"This is hard," said Groves. "I want this to be the perfect embodiment of everything we've been talking about."

"There's so much gray area," Zohoori said.

The class relegated the details of the menu to their professor, but offered guidelines: The fish should come from ecologically healthy populations, and at least some of it should be local. It should be delicious. And because this was a special occasion, it was fine to include a small amount of yellowfin tuna (ahi), which represents the epitome of taste. "There are debates about the biological sustainability of yellowfin," Smith said, "but there is not great reason for concern like there is with bluefin."

Smith started the evening with an appetizer of seared ahi seasoned with Hawaiian red sea salt and served with a ponzu dipping sauce. For the entrees, he cooked Alaskan halibut in a coconut curry with star anise, along with local flounder broiled Vietnamese-style. The halibut offered an example of good policymaking: Back in the 1990s, it was "one of the most economically wasteful fisheries in the world," Smith said. With unlimited boats allowed to participate, "the entire season's quota was caught in a mad derby lasting just a few days" (not unlike the game on the first day of class). The vast majority of the catch had to be frozen. After the system was changed to give individual fishermen their own quotas—which could be traded on the free market—the number of vessels declined "and the season extended to over 200 days so that fresh halibut could be sold most of the year." The fresh fish could be sold for a premium, boosting profits.

Smith prepared vegan entrees, too, and mangos with sticky rice for dessert. For one night, there were no formulas or demand curves. Afterward, he took out his guitar. The students—most getting ready to graduate, to figure out their careers and adult diets—gathered around their professor. And they sang. ■

Yeoman is a journalist based in Durham. His recent work has been published in OnEarth, Audubon, The American Prospect, and Parade.

he Save

By Michael Penn

How Duke's global network, a cell phone, and an unflappable friend gave former Duke soccer player Nick Tsipis a second shot at life.

Kendall Bradley '11 checked her phone and gave herself thirty-five minutes to fall apart. She'd left Nick in the gaping mouth of an MRA machine, his eyes full of pain and fear, and was finally alone. Or, at least, as alone as one could be in the ghastly circus of the hospital triage room, which teemed with people in various states of agony. Somewhere on the streets of Ho Chi Minh there had been an accident, and victims were being carried in in shocking states of disfigurement. Nearby a teenager in his underwear writhed on a stretcher, a large bandage on his head turning scarlet with blood. The chaos did nothing to quiet Bradley's sense that her friend's situation was spinning wildly beyond her control.

Her phone buzzed. *Henry. Maybe it's good news*, she thought. Henry Friedman HS '83, her mentor at Duke for the past four years, had been working connections to get them out of Vietnam, but he was calling for a different reason. He'd been consulting with Duke doctors. "Kendall," he said, his voice solemn from 9,000 miles away, "you need to understand how serious this is."

Bradley tried to sound calm, assuring Friedman that she had it all under control. That was important, she knew—everyone needed to believe she could handle this, that Nick could count on her.

"No, you don't understand," Friedman pressed. "There is a 70 percent chance that Nick won't survive."

Friedman continued on, passing along instructions

from one of his Duke colleagues about medications Nick should receive. Bradley mumbled something and hung up, her mind racing past her attention. Nick Tsipis '11 was twenty-two years old, a varsity athlete. People like that don't just die. Except sometimes they do. Bradley, who would start medical school in six weeks, knew that much.

Slumping deeply into her seat, she undammed a flood of tears. *Go ahead*, she told herself. *Be upset and then get over it, because that's not going to help anyone.*

 He was hamming it up, as usual. The lesson that Tuesday morning in June 2011 was positive energy, and Nick Tsipis was all over the room, beaming smiles, slapping hands, whipping the kids into a kinetic frenzy. He wasn't faking it; he felt *great*. The camp was in its final days, and after three humid weeks in the remote Vietnamese jungle, he was ready to be done. Bounding to the front of the classroom, he shouted, "Today's going to be a great day!" And then, a flash of excruciating pain. The room spun like a roulette wheel. His knees buckled and he felt himself tipping. His stomach heaved.

Not wanting the kids to see him get sick, Tsipis stumbled to the back of the room—weaving, teetering, crashing into desks—before collapsing on a bench near the back. He rolled over and threw up violently into a cardboard box. "Just give me a second," he mumbled to the other teachers. But by the end of

class, he looked no better, and so they fetched the camp director, who ran off to find Bradley.

Bradley had known Tsipis since her first day at Duke. They had arrived together in August 2007 as soccer recruits—he a goalie from an elite private high school near Cleveland, she a Durham native and the daughter of a Duke professor. They both were interested in medicine, and they shared a connection to Henry Friedman, Duke's James B. Powell Jr. Professor of neuro-oncology, who is a longtime friend of Tsipis' uncle and the father of one of Bradley's classmates. Friedman encouraged them to join the Collegiate Athlete Pre-Medical Experience (CAPE), a mentoring program he directs (funded exclusively by private donors) that gives participants a taste of medical practice. Through CAPE, Tsipis and Bradley took internships at Duke's Preston Robert Tisch Brain Tumor Center, where Friedman is deputy director. Their common experiences brewed a tight, platonic friendship.

Vietnam had been Tsipis' idea—"my fault," he would later say. As freshmen, he and Bradley had taken a spring break trip there to help set up Coach for College, a series of youth camps started by former Duke tennis player and Rhodes Scholar Parker Goyer '07. Goyer wanted to enlist college athletes to inspire Asian teens to dream big, and Tsipis and Bradley vowed they'd return one summer to coach. The demands of soccer and premed, however, always trumped their plans.

Then, a few weeks before their graduation, Tsipis called Bradley. "I signed up," he told her. "And you have to come with me. Let's finish what we started."

It was hasty and impulsive, but Bradley agreed. Both she and Tsipis were entering Duke medical school in the fall, and they'd probably never have a free summer again. But privately, she worried whether spending three weeks in the wilds of a country whose culture and language were unfamiliar to her might be too far outside her comfort zone.

Those doubts continued to tug at her throughout her time at Thuan Hung School. One day, a girl asked if she could leave early. Rain was coming, she explained, and she had to ride her bicycle for two hours to reach home. *What if she fell and broke an ankle?* Bradley worried. Other kids hiked an hour through the jungle to come to the school every day. The camp had no doctor on staff, and as premed students, she and Tsipis often were called on to look at bumps and scrapes. *But what if something really bad happened?*

When Bradley walked in to see Tsipis sprawled out on the bench, pale, drenched in sweat, and barely responsive, she had no idea that her worst fears already were playing out somewhere deep inside her friend's brain.

✚ It's normally an hour-and-a-half drive from Thuan Hung School to the nearest hospital in Can Tho, the largest city in the Mekong Delta. After seeing Tsipis, the school's bus driver made it in forty-five minutes. Bradley was terrified. Tsipis couldn't walk or open his eyes. She had seen plenty of sick people working at the Duke brain-tumor center, but he was "about as sick as I've ever seen someone," she says. As the driver weaved maniacally through traffic, she grabbed Tsipis' cell phone to find his parents' phone number, but the phone was dead. So she grabbed hers and called her mom.

Kathryn Andolsek HS '79 recalls her daughter sounding characteristically calm—not rattled, but concerned about how to handle her friend's deteriorating health. Andolsek, Duke's associate director of graduate medical education and a family-med-

icine physician, talked with her about the cultural and language differences she was likely to encounter at the Can Tho hospital and promised to contact some of her Duke colleagues who knew Vietnamese health care. The conversation was strategic, uncolored by emotion. "I just wanted to be prepared for whatever I was going to face in Can Tho," says Bradley. "It's not like I thought Nick was going to die."

No one did—it seemed far more likely that Tsipis was having a bad reaction to something he ate, his American stomach rebelling against some bit of Vietnamese cuisine. At Can Tho, a doctor who spoke some English explained Tsipis was likely dehydrated, and he ordered an IV. And it seemed to help. Tsipis was

still vomiting frequently, but he was more alert and engaged. He and Bradley argued with nurses to open up the IV drip to feed more fluid into his bloodstream. The nurses declined, worried, incorrectly, about overwhelming his system with fluids and causing heart failure. It might have been a legitimate concern for an elderly patient, but Tsipis was young and in peak physical condition. So whenever the nurses left the room, he opened the IV drip up anyway.

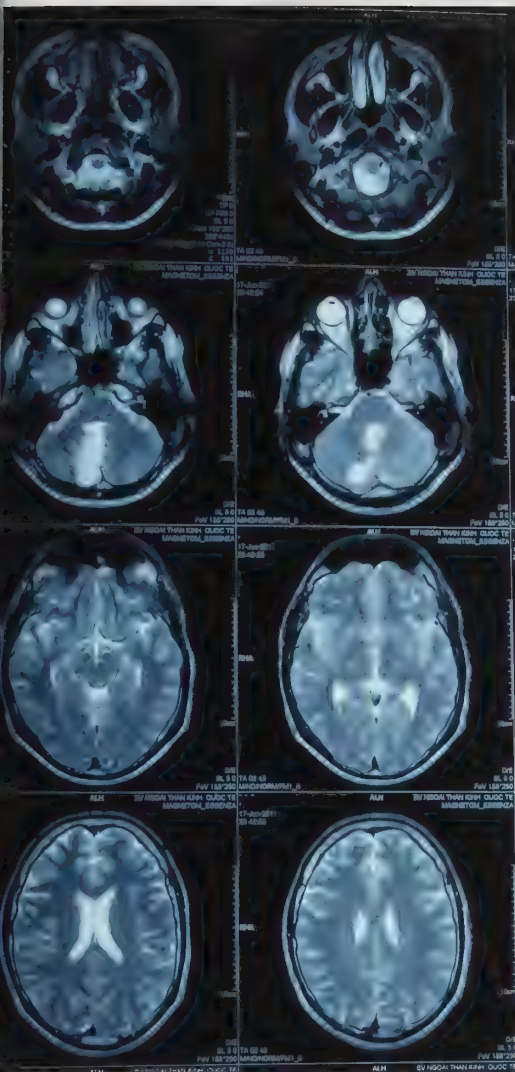
For two days, Bradley stayed by Tsipis' bed, spoon-feeding him sips of water every ten minutes and shooing flies away. Bugs buzzed everywhere and kept her from sleeping. But it was better than the hallway, where rats ran the corridor.

At one point, Bradley noticed that Tsipis' pupils were uneven. Then, when for the first time in two days he had to go to the bathroom, she detected a slight shuffle in his step. In CAPE, Henry Friedman had taught them how to do a neurological exam, and she knew uneven pupils and an interrupted gait could be signs of brain dysfunction. But there hardly seemed cause for alarm: Tsipis was stronger and beginning to eat rice. The doctor



Pep talk: In the classroom, Tsipis was full of energy.

"You have to get the help"



Courtesy Kendall Bradley '11

Phone scan: Bradley's cell-phone picture of Tsipis' MRI, which shows a large white area where a stroke cut off circulation in his brain.

was ready to send him back to the camp. "Working at the brain-tumor center, the first time you get a headache, you're like, 'Oh, my God, it's glioblastoma. I have six months,'" Bradley says. "He was twenty-two. So I just thought, you're overreacting. He's going to be fine."

+ At 8:45 on Thursday evening in Durham, Kathryn Andolsek's cell phone rang. Tsipis was not fine. It was Friday morning in Vietnam. Tsipis had been discharged

for another 2 hours then wake him up to sip • Yes the nighttime bugs have invaded...not sure I will be able to sleep much anyways bc they crawl all over bathroom has light turned off and that is where I am currently standing nick took sip of water with Tylenol • I moved to hallway where there is less light and a few chairs • Will return to bathroom just spotted the small friendly hallway rat door is open to outside on level 0 so I guess I shouldn't be too surprised • **10:02 a.m.** After 500 ml of lactate and 500 ml of glucose solution they want to discharge nick I am going to try to slowly work to rice before those are finished to make sure he can hold down food before we leave • **KA: My gut is he will do fine and you can probably advance in hostel has he urinated?** • Yes! He got up at his own request I helped him to the bathroom but he did not need as much support as yesterday • **10:48 a.m.** Doctor came back they want to do a final blood count before nick leaves...apparently this takes a long time so we will spend one more time I am actually glad bc I would like nick to feel stronger before we go to a place so far from nearest hospital I told his parents • **Thursday, June 16, 9:48 a.m.** Thank you...still waiting for doc nick still has a little bit of a headache and still a little dizzy otherwise feels good he urinated almost every hour so I feel like he is pretty much rehydrated any thoughts on headache and dizziness? • **KA: He is a few hours away from being profoundly ill it has been less than 48 hours only surgeons fix things quickly did they keep him on cipro? Possible he has salmonella? Fever? How is his eye exam? Glad he is urinating? When did he last have ibuprofen or Tylenol?** • Tylenol at 6 am no ibuprofen pupils are responsive received 200 mg cipro at 2 am • **KA: So Tylenol wearing off is he hungry?** • Not really he asked for a granola bar yesterday late a night. I just gave him another • **KA: Granola or rice?** • He does not want to eat anymore rice we eat lots of it here • **KA: Then he isn't hungry enough** • **12:48 p.m.** Saw doc, blood test normal we are going to be discharged we have a prescription for cipro I am trying to get copy of chart. Get some sleep and thanks • thank you for everything the past few days I know it has been a lot of work • **KA: You are worth it I would like to hear at some point what you have learned it can be at the beach** • **Friday, June 17, 9:46 a.m.** **KA: Have nick call his folks himself text me when you leave feel free to pack light and get clothes in ho chi minh they have a Sheraton which is a w hotel brand they had lots of those in china** • **KA: You cannot judge (and many times in the future not either) the rightness of your decision by what actually happens in Ho Chi Minh. You have to trust yourself and your gut. The rightness of your decision is decided by all you have done now.** • **10:54 a.m.** Ok we are en route via taxi van Allison and a Vietnamese coach are with us thank you for the support in all of this I am happy I am not sick but would hope someone would treat me the same way...after fighting we are going to international sos • **KA: Fighting?? Fighting about what???** • I expressed a strong opinion about my hospital preference which was different from where the Vietnamese wanted to go • I won • **1:42 p.m.** In Saigon eta to SOS 15 minutes • **KA: Thanks !!! how is nick?** • OK I think trip has taken a bit out of him • **KA: Still headache?** • He managed to fall asleep about 10 in ago..! "I wake him at SOS and let you know" • **8:13 p.m.** **KA: Do you need me to page Alan and have him call you?** • Yes please • **8:36 p.m.** **KA: Henry should call you Allan will call Henry I will call you in a bit but I want Henry to talk with you first** • **Saturday, June 18, 12:09 a.m.** **KA: Can you call me? On cell in quad or I can go back to office let me know** • **2:26 a.m.** Can you ask father tom and sister damian to pray for us? • **KA: I asked on Monday I shall again. I am involved in passport...my contacts duke gov relations need your social sec and passport number nick full name and social and passport If you only have social or passport fine** • **11:28 a.m.** Leaving for airport • **KA: Thanks I love you and I admire you beyond words** • **12:43 p.m.** Wheels up • **2:17 p.m.** Touchdown...will let you know when we reach the hospital



Courtesy Kendall Bradley '11

Far from home: Tsipis in a hospital in Can Tho

from the hospital in Can Tho fourteen hours earlier and headed straight to his room to sleep. In the night, his head throbbed, as if his skull were in the clamps of a vise. At 6 a.m., his roommate, a linebacker at the University of Virginia, went to find Bradley. Intercranial pressure set off all kinds of alarms; they needed to get back to a hospital.

Through her mom's contacts with the Duke Global Health Institute, Bradley had gotten in touch with David Dennis, an internal-medicine doctor who had directed a project on infectious diseases in Vietnam for the Duke-NUS Graduate Medical School in Singapore. Dennis told her the only hospitals equipped to diagnose neurological symptoms were in Ho Chi Minh, five hours away by car. "Go to Ho Chi Minh," Andolsek advised her daughter. "If nothing's wrong, you'll have a nice dinner and celebrate." The Vietnamese coaches argued

out of there."

with Bradley, urging her to go back to Can Tho. But Bradley was adamant. They were going to Ho Chi Minh.

The taxi ride was a five-hour boxing match with bumpy dirt roads. As Tsipis flopped around the back seat, the pain in his head worsened, and he began to slip from consciousness. The color drained from his face. Bradley, a Catholic, began saying Hail Marys. She didn't know what else to do. "There's a look to people. They say that in the hospital—sometimes there's just a look," she reflects now, then pauses, not finishing the thought.

 "I'm afraid I have somewhat bad news," the doctor said.

It had been four hours since they'd arrived at SOS International, a clinic catering to foreign citizens. To their relief, Tsipis and Bradley found their doctor friendly and fluent in English. But it was a small slice of comfort in a delicatessen of the bizarre. They had been taken in an ambulance across town for an MRI, which doctors had downplayed as merely a precaution. The clinic was in the basement of a parking garage, and dozens of waiting patients lined up alongside parked motorcycles. When his test was done, Tsipis' scans came rattling off a printer in the middle of the waiting room, the films of his brain flopping out for anyone to see.

The nurses' fantastically wrong reasoning "saved my life."

Back at SOS, they'd sat in a clinic room waiting for the doctor to explain the results. She'd popped in three times, her questions growing increasingly alarming: "Any family history of blood clots? No? Okay, we're still looking." And then: "Has anyone in your family had a stroke?"

Still, Tsipis and Bradley were unfazed. He'd gotten fluids and food and was rebounding. Before the doctor returned, Tsipis had been urging Bradley to take him out of the clinic. He was due to fly home on Monday. They'd get a hotel, rest up in air-conditioned luxury.

Then the doctor delivered her news: "You appear to have had a stroke in your right cerebellum."

Tsipis was floored. He knew little about strokes, and what he did know said they don't happen to twenty-two-year-olds. Terrifying words crept into his head: paralysis, brain damage, loss of function. He shunted them away, questions for another time. "I didn't really want to take time to think about the meaning of it," he says. "I was just thinking, 'What do we have to do? What's the next step?'" He called his parents. It was early morning in Winston-Salem, where they lived, but they'd been awake, nervously awaiting an update. He told them there was no reason to worry. Then he hung up and bawled, not so much for his own condition, but for having had to lie to them. There was plenty of reason to worry.

Bradley, meanwhile, was on the phone with Henry Friedman, who had looped in neurosurgeon Allan Friedman HS '75, the Guy L. Odom Professor of neurosurgery who codirects the CAPE program. The Friedmans (who are not related) wanted to see the MRI scans, but the clinic had no way to digitize the films. So Bradley took a picture with her phone and e-mailed it. When she looked at the film, she was aghast: A huge swath of Tsipis' cranium glowed

stark white, an indication of swelling around the brain. If it got worse, he would need immediate surgery to relieve the pressure on his brain.

"You have to get the hell out of there," Henry Friedman told her. *Ciladly*, she thought.

There was just one problem: They didn't have their passports.

 Allan Friedman had been in the operating room at Duke Hospital when Bradley called. Someone put her on speaker phone, and he took in the details of Tsipis' case in the middle of surgery. The Friedmans agreed Tsipis needed to get out of Vietnam and to somewhere with more-advanced medical technology. "If everything about Nick's situation was perfectly static, he could have been any place," says Allan. "But it wasn't a static situation. There was a risk of increased swelling, and there was a risk of a second stroke. If he needed surgery to reduce the swelling, [the doctors in Vietnam] would not have been able to handle it." Another stroke, or a ruptured artery, would almost certainly have been fatal.

They also agreed Bradley needed to know what could happen, to steel herself for the possibility that Tsipis might die. "She's going to feel responsible," Henry told her mother. "We need to protect her."

Meanwhile, in Vietnam, Bradley's to-do list was burgeoning. She had taken charge of increasingly significant portions of Tsipis' life, review-

ing his medications, negotiating with his insurance carriers, and even temporarily assuming his medical power of attorney. There were clearances to get, tests to approve, and a growing cast of doctors a continent away to keep apprised. Her cell phone rang like a stock trader's.

Tsipis couldn't have picked a better caretaker. Everyone regarded Bradley as relentless, a woman of sheer will and gumption. She had been captain of the soccer team, a near-flawless student. Everything she took on she did with focused intensity. She was a doer, a fixer of problems. And if her tendency toward introversion sometimes masked her compassion, medicine drew it out. She loved the science, but more than that, she loved the idea of helping people, of solving what was wrong.

By Friday evening, however, Bradley's formidable resolve was waning. Doctors had ordered an MRA, a more-detailed scan of the blood vessels in the brain, to ensure Tsipis was safe to be evacuated, and on yet another ambulance ride he slid into a half-lucid miasma of pain. At the sight of the horror scene in the triage room, he pleaded with Bradley, "Don't let them touch me." When Henry Friedman called to tell her Tsipis might die, it was finally too much. She came undone. Soon after, her phone buzzed again. She answered to hear her mother, repeating almost verbatim what Henry had just told her. And then Bradley did something she had never done before, and never since: She hung up on her mother.

It was the inertia of the situation that frayed her. She couldn't *do* anything. Their passports were locked in an office five hours away—they'd had to forfeit them to clear up an error with their travel dates. What should have been an administrative hiccup was now threatening to derail their plans. The U.S. consulate in Ho Chi Minh and the embassy in Hanoi had been no help, and so

Henry Friedman offered to make a few calls.

He started with Paul Vick '66, associate vice president for government relations for Duke Medicine. Vick's contacts in Washington told him that passports on such short notice couldn't be done without high-level intervention. "Who do you need?" Friedman asked. "Name it, and I'll get them." Friedman turned to former U.S. Sen. Tom Daschle, whom he'd known for several years. Daschle called the Secretary of State's office.

At 4:30 on Saturday morning, Bradley got a call from the consulate office: They had been issued new passports. A consulate official delivered them to the SOS clinic. The documents looked fake—badly pixilated photos sheathed in cheap plastic—but the official beamed as he presented them. "The first ones I've ever made," he explained.

"You seem to know a lot of people in the government," the official added, asking Tsipis and Bradley to put in a good word with their friends in Washington for an ambassador who was awaiting Senate confirmation.

Six hours later, armed soldiers marched Bradley and Tsipis to a small plane on a tarmac. Within fifteen minutes, it was airborne, bound for Bangkok, where the Friedmans had arranged for Tsipis to be cared for by Sith Sathornsumetee HS '07, a neurologist who had trained at Duke. Neither Tsipis nor Bradley had slept the night before. Tsipis closed his eyes, one last time praying that he would open them again. Bradley just watched the clouds, feeling, for the first time in days, light as the air around her.

✚ It was not over when they reached Thailand. Sathornsumetee put Tsipis on blood thinners to stabilize him for the flight home, but he kept pushing back his release. Tuesday became Thursday, which turned into Saturday and then Monday. Tsipis' parents were stuck in a frustrating limbo, unsure of whether to fly off to meet him or await his arrival. Their son's final harrowing episode—a sudden return of his headache, accompanied by a tingling sensation—came as they prayed in Duke Chapel for his safe return.

But there was safety in Thailand. They were sheltered in a modern, Western-style hospital, no longer exposed to the raw edge of a foreign health system. With nothing to do but watch *Titanic* on Thai television, Bradley felt unburdened. She began to contemplate the string of events that delivered them from the depths of the Mekong Delta. In retrospect, much of it seemed pure luck, being in the right place at the right time, talking to the right people—"blessed coincidences," as Tsipis would later describe.

But what is luck? Shakespeare wrote that "Fortune brings in

some boats that are not steered." Tsipis had many hands on the wheel: the Friedmans with their knowledge and connections; Kathryn Andolsek with her steady advice; the Vietnamese doctors; the miraculous nerve of their drivers. There was Chris Woods M.D. '94, a Duke physician with expertise in infectious diseases and global health, calling on the road home from a funeral to help

Andolsek locate contacts in Vietnam. There was Bradley's father, Don (M.H.S. '02), a chief medical officer with an insurance company, waking a colleague in the middle of the night to get Tsipis insurance certification for a procedure. When it was over, Bradley made a thank-you list of all the people who helped along the way. She counted fifty-seven names. They were not adrift by any means.

"It was just so amazing to see how much people care about people who are not members of their family," says Bradley. "Even though we were literally on the other side of the world, they were there for us. They were going to be supporting us every single step of the way. We had a lot of luck and a lot of help."

True, not all luck is made. Remember the mistake in Can Tho, when nurses refused to open Tsipis' IV drip for fear his heart would fail? They were wrong—but so was Tsipis. He thought he was dehydrated; he had no idea a blood vessel in his brain was blocked. Coursing his blood with fluids would have put pressure on the blockage and likely caused the vessel to rupture. Which

would have been fatal. The nurses' fantastically wrong reasoning "saved my life," Tsipis says. "By opening the IV, I was essentially trying to kill myself."

But for most of their adventure, luck came to Bradley and Tsipis not as a gift, but as the fruit of intention. "Sure, they got lucky," reflects Henry Friedman. "But they got lucky because Kendall put them in position to have that luck. She was fantastic. She did exactly what she was trained to do."

After ten days in Bangkok, they were finally cleared to return home. They flew first-class, accompanied by a critical-care nurse. When they arrived at Duke Hospital, Tsipis was swept up in a whirlwind of grateful family. Less than a month later, he would walk his mother down the aisle at his sister's wedding. To date he has no lingering symptoms of his stroke.

As she watched her friend disappear into the embrace of his parents, Bradley turned to her own. "Let's go home now," she said. Her mother drove. They parked the car and walked into the kitchen. Bradley checked her phone. In the past two weeks, she had made more than \$4,000 of calls and text messages. Her phone had chosen this moment to die. She'd exceeded her maximum charge and been cut off. *Doesn't matter*, she thought. *I'm done*. And she headed off to the beach. ■



Patient practice: Now in their second year of med school, Tsipis and Bradley say their crisis in Vietnam will make them better doctors.

I Will Keep Up With **ANDREW SKURKA**

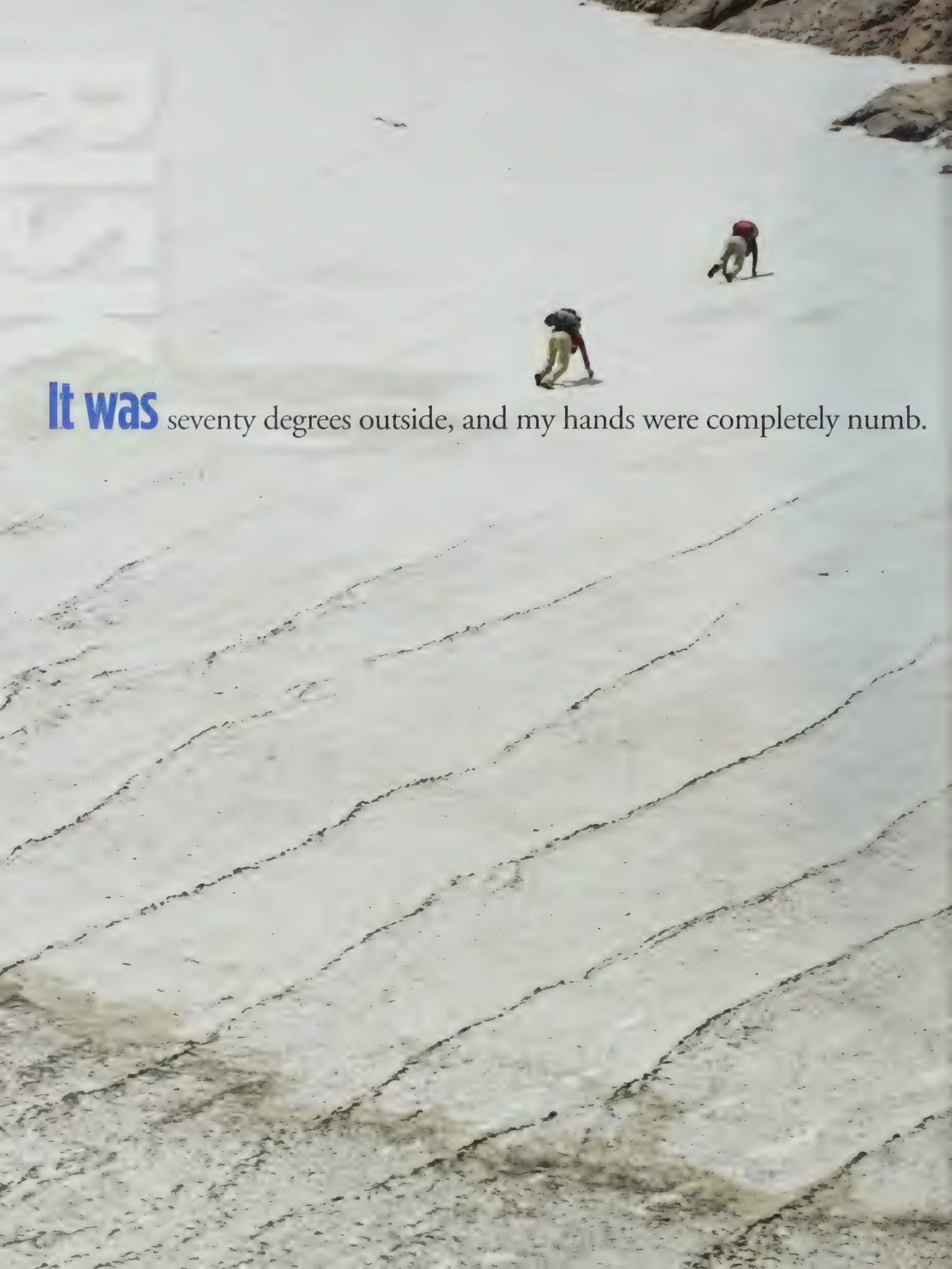
By Ken Ilgunas • Photography by Liam Doran



In which our writer spends three days
tracking the world's most relentless
long-distance hiker—and finds that
only half the battle is physical

Follow the leader:
Skurka and the
author stride under
the peaks of the
Gore Range.





It was seventy degrees outside, and my hands were completely numb.

I was leaning belly-first against a steep, 13,000-foot mountain slope in Colorado's Gore Range. The slope was covered with a frigid rind of snow, and my feet were carefully positioned in tiny, kicked-in toeholds. Apart from the toeholds—which could give out at any moment—the only thing keeping me from sliding hundreds of feet down the mountain were my hands—chilled to a medium-rare pink—which I'd crammed into the snow with a my-life-is-on-the-line grip.

"Don't panic, Ken," I whispered to myself. "Don't panic."

Panicking, I peered down the icy slope, which led to a bruising batch of boulders at the bottom. If I lost my hold, I knew that I'd slide all the way down and, at best, shatter a bone on one of the many rocks jutting out of the snow—or, more probably, have my mangled remains helicoptered out in a lumpy body bag.

Carefully, I took a step down. Then, about ten seconds later, another. Finally, I caught up to my guide, who was resting on a ledge beneath a cliff and warming his hands. I steeled myself for his assessment, which I was sure would mock the terror I felt and dismiss the icy slope as nothing out of the ordinary.

"If I knew it was going to be like this, I wouldn't have done it," he said matter-of-factly, while violently rubbing his hands together. "We could break a coccyx if we fell."

My guide was Andrew Skurka '03, a god of calves, and arguably the greatest hiker the world has ever seen.

I'd been hiking with him for two days, but I still had a lot to figure out: Are we going to get down this mountain? What exactly is "ultimate hiking?" Who is the real Andrew Skurka? And—most pressing—where is my coccyx?



Peaceful isolation: Skurka likes to hike off-trail, where he encounters few other travelers. Facing page: Descending a snowfield with an icy grip.

"What sort of shape are you in?" he had asked me over the phone.

Skurka had agreed to take me on a three-day wilderness hike through the Colorado Rockies, but now he sounded skeptical. And maybe with good reason—at the time I was living on a farm in the low-lying piedmont of North Carolina, and I was worried about how my body would handle the high elevations of the Rockies. I told him that while I'd never hiked the Appalachian Trail from end to end, I'd logged plenty of miles on it during spring breaks in college—sometimes as many as twenty-five miles a day.

"Given where you live and that you're not an endurance athlete," Skurka said, doubtfully, "it's more likely that you will struggle."

I had no pretensions I was in Skurka's league athletically. A former track and cross-country runner at Duke, he's become one of the premier endurance athletes in the world, a backpacker whose epic adventures have become legendary in the hiking community. He's crossed the width of the continent on a 7,775-mile trek from Quebec to Washington; circled the western half of America in a 6,875-mile loop connect-

ing parts of the Pacific Crest and Continental Divide trails; and bushwhacked, skied, and pack-rafted for 176 days and 4,700 miles across Alaska and the Yukon. *Outside*, *Backpacker*, and *National Geographic Adventure* have each tabbed him for "adventurer of the year" awards. In the past decade, he's logged some 25,000 miles, more than the length of the Equator.

In the process, Skurka has pioneered a new branch of hiking that he calls "ultimate hiking," which relies on ultralight gear, efficient packing, and careful preparation to maximize the amount of ground a hiker can cover. Unburdened by heavy gear and with his cunning ability to read the landscape, Skurka is capable of hiking from dawn until dusk for weeks at a time. He's championed this philosophy in a book, *The Ultimate Hiker's Gear Guide*, and in more than 200 speaking events a year, including stops at gear stores, Boy

Scout troops, trail associations, and higher-profile engagements with Google and the Explorer's Club. When he's not talking about the trail, he's on one, offering guided hiking tours throughout the U.S. A hiker on one of his adventures described the experience as "like learning from the Yoda of backpacking."

So, yeah, I was intimidated, and, to be honest, a bit stung by Skurka's prediction that I'd "struggle." Out of my league or not, I decided I'd prove him wrong. My goal was outlandish, immature—stupid, really—but I was determined to do the impossible: I will keep up with Andrew Skurka.

So began a rigorous training regimen of running eight miles a day (which instantly turned into five-mile runs twice a week), and going on a hike every weekend (reading Cormac McCarthy novels in bed). But on my road trip west, I did manage to hike a seventy-mile section of the Appalachian Trail, and, upon arriving in Colorado, I spent two nights above 10,000 feet without throwing up. No longer was I feeling completely hopeless. In fact, I was feeling downright confident.

But my goal wasn't just about avenging my bruised pride. I wanted to know what drives Skurka to walk so far and so fast. I wanted to find out how he can even enjoy nature if he travels through it so swiftly. Most of all, I just wanted to learn how he's able to do it.

And to learn anything, I knew I'd have to keep up.

In Denver, on the evening before our hike, I visited Skurka at the apartment he shares with his girlfriend so he could assemble our meals and outfit me with ultralight gear. As he expertly rolled Ziplocks of granola and taught me how to construct our stove (a tiny perforated cat food can into which we'd pour alcohol as our cooking fuel), I was encouraged to note that Skurka—of average height and build—wasn't the imposing figure I'd imagined. But when he walked into the kitchen to snag some bags of ramen and Minute Rice for our dinner meals, I snuck a peek at his calves: two marbled speed bags of death, spider-webbed with a network of bulging veins that again reminded me of the absurdity of my goal.

He asked me to lay out all my gear on his lawn.

"No, no, no," he said, pointing at each of my items. "It looks like you got this stuff from the Duke Outing Club."

There's plenty of gospel around the subject of hiking gear, and for good reason. When camping outfitters started making light, weatherproof gear, it opened a world of longer, more ambitious hiking. According to the Appalachian Trail Conservancy, there were only thirty-seven recorded "thru-hikes"—the term hikers use for a continuous end-to-end trail hike—on the 2,168-mile footpath during the 1960s. In the decade of the 2000s alone, there were 5,866. Still, many hikers' ambitions have been thwarted by clunky gear and poor planning. (The Appalachian Mountain Club estimates that only 20 percent of hikers with intentions of getting to the end of the AT complete it.)

And that's where Skurka enters the picture. He's turned efficient packing into a science, becoming an expert on the breathability of garments and the relative advantages of natural and synthetic fills. He calculates his daily caloric needs to avoid bringing any more food than necessary. While many thru-hikers set off with packs weighing thirty or forty pounds on their shoulders, Skurka has winnowed his load as low as six pounds on some occasions.

In place of the tent I owned, I'd carry one of Skurka's seven-ounce bivy sacks, a mini-shelter the shape of a sleeping bag that adds a few degrees of warmth and keeps out bugs, along with a nine-ounce tarp, which we'd erect with his trekking poles and rope if we anticipated rain. In place of hard plastic water canisters, he gave me collapsible one-ounce Platypus bottles. And in place of my hefty sleeping bag, he gave me a sleek thirteen-ounce quilt, which went into a frameless, twenty-four-ounce backpack. With all its contents, the pack weighed a little more than ten pounds.

"What shirt are you going to wear?" he asked.

"This one," I said patting my blue tee.

"What kind of fabric is it?"

"Cotton," I said.

He looked at me aghast, as if I'd just told him I was planning on wearing plate armor and packing the *Lord of the Rings* trilogy. (Cotton, I would learn, is scorned by hikers because it is slow to dry compared to other fabrics.)

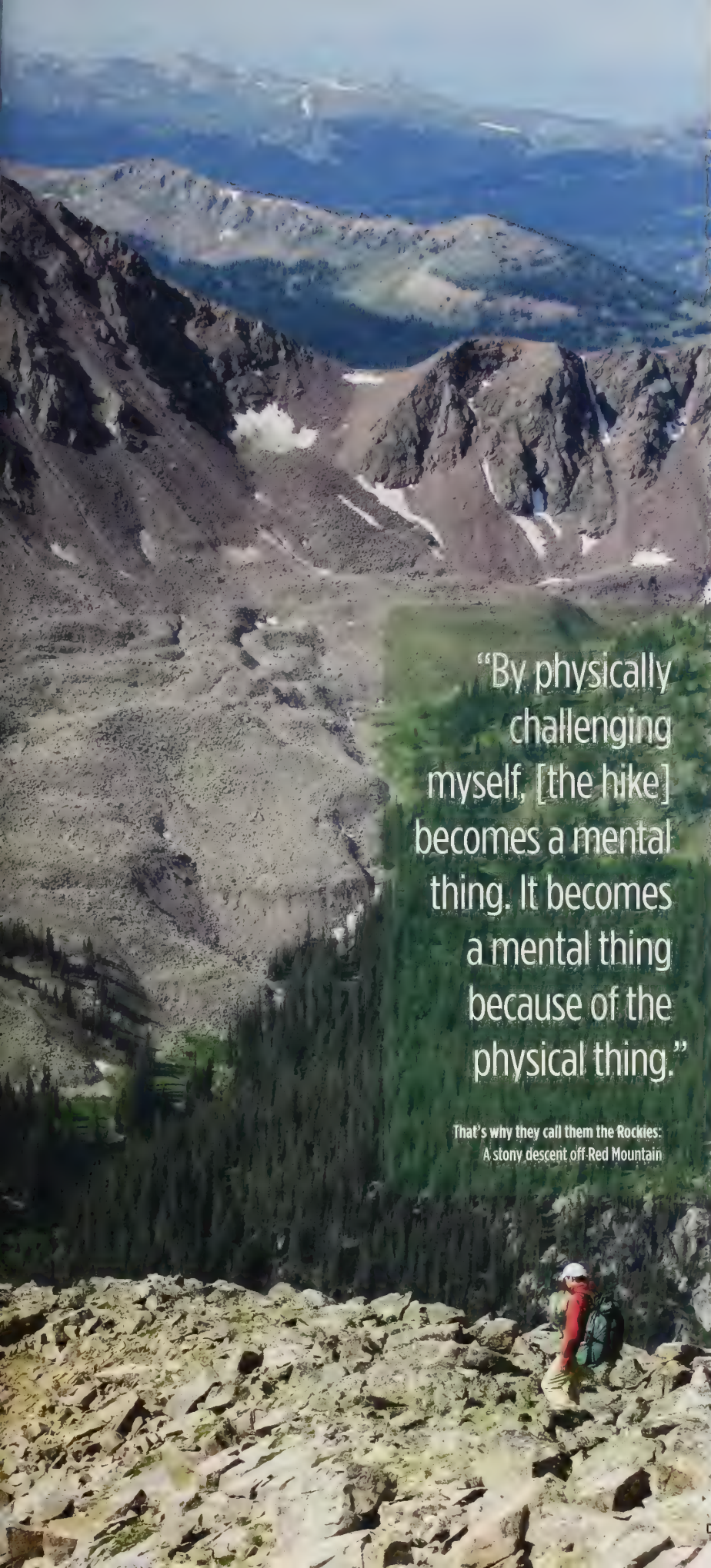
"Are you serious?" he asked.

"Yeah," I said matter-of-factly.

"No, I'll get you a different shirt."

He tossed me a Merino wool shirt, jumped in my van, and we set out west for the mountains.





"By physically
challenging
myself, [the hike]
becomes a mental
thing. It becomes
a mental thing
because of the
physical thing."

That's why they call them the Rockies:
A stony descent off Red Mountain

We began our hike in the Eagles Nest Wilderness, just outside of Frisco, Colorado, on the 9,000-foot contour line. The mountains here are more bulbous than spiky, making hiking manageable. In the distance was the gargantuan hump of Buffalo Mountain, seated beside the volcanic ridgeline of Red Peak, each sprouting from a thick bed of spruce trees. The air smelled clean and cool, and the sky, colored a startlingly perfect blue, was a watering hole for a variety of cloud species, some ballooning atomically, others gently drifting like sleeping whales, and still others stretched thin into a rolling marshmallowy froth.

An hour into our hike, I was still acclimating and breathing much harder than I should have been on a relatively modest incline. Skurka, with a cocky smile, tapped me on my chest and asked, "How are you holding up, Ken?" Annoyed by the condescension, I gave him a curt "good" and continued to labor up the hill.

Gripping a pair of trekking poles and wearing a baseball cap with a long cloth flap to shield his neck from the sun, Skurka resembled a cross between a praying mantis and a sheik in ceremonial headdress. To get away from other hikers, we broke off the trail and headed toward Uneva Pass, where we walked along a hard ridgeline and viewed the valleys on each side of us.

I had grown more relaxed as my body adjusted to the altitude, and no longer did I feel like I was hyperventilating. I was relieved to notice Skurka was puffing, too, though not nearly as much as I.

"My god, this is amazing," I said ecstatically, surveying the panorama of meadows dappled with yellow, purple, and blue flowers.

"This is a kinda ho-hum for me," Skurka noted dryly, pointing out we could still see Interstate 70 in the distance.

Because I knew Skurka had spent so much time in nature, and because another writer had described him as a "Gen Y version of Henry David Thoreau or John Muir," I'd half-expected to hike alongside some moss-bearded bard of the woods who only opened his mouth to spout the poetry of Wordsworth and sing the glories of nature. But Skurka hardly seemed romantic about his adventures. As we hiked, he talked about the business he'd built around hiking—his book, his speaking schedule, the guided tours. When I asked what future trips he might undertake, he said, "I wouldn't do anything I couldn't profit from." I began to wonder what hiking and being in nature meant to him: Was nature

merely an arena for him to test himself? Was hiking merely a means to build his brand? Does he enjoy being out here?

Hiking only recently had become a job for Skurka. At Duke, he was an economics major bound for a career in finance when he spent a summer working at a high-adventure camp in western North Carolina. The experience was “life-altering,” he said, and it prompted him to take a radical turn off the road to Wall Street. His coworkers at the camp weren’t worried about steady jobs and buying nice houses, he explains; they weren’t focused on earning a living, but just, well, *living*.

The next summer—between his junior and senior years—Skurka set off on the Appalachian Trail, and he discovered his skill for long-distance hiking. He finished the trail—typically a five- to seven-month venture, according to the Appalachian Mountain Club—in ninety-five days.

After graduating, he sought even grander adventures. For the most part, he lived what he calls a “dirt bag” life, storing his belongings in plastic tubs that he’d move from one friend’s home to another when he wasn’t on the trail. He gradually earned recognition and a few sponsorships, but it wasn’t until 2006—when he was hiking a 1,700-mile section of the Pacific Crest Trail and averaging thirty-eight miles a day—that he realized he might be able to profit from all the lessons he’d learned on the trails. Now, he makes enough from his guided tours, his book, and appearances that his excuse for avoiding a regular job *is* his regular job.

“I think I just reached a sort of breaking point where I was tired of living out of tubs,” Skurka had said on our drive to the mountains. “I can’t get over that. And I also come from a family and background where, if I’m going to get married, the expectation is that I could financially support my family if I became the sole earner. I enjoy being a businessman. It’s been an interesting experiment for me this year: How much can I earn being an adventurer?”

Later, as we trudged through a field of tussocks, a lone mule deer loped away upon catching sight of us, and three elk, hoisting antlers as big as chandeliers, snacked on the verdure of one of the shadowy valley floors. I was mesmerized. Skurka seemed unaffected.

“Is it the joy of creating a great plan and conquering it?” I asked haltingly, trying to catch my breath between words. “Or is there more of a step-to-step enjoyment that you get from your hikes?”



Along the journey: (clockwise from above) camp at Willow Lakes; climbing Red Mountain with Willow Lakes below; Skurka making a quick read of the map; the author, nursing sore feet; and hydrating with some of the Rockies’ ample fresh water

“Expanding your horizon. Pushing your limits. Understanding your potential. Those are all valid explanations for doing this stuff.”

We walked in silence for most of the evening, concentrating on our footing as we stepped on boulders to cross a talus field, descended a gravelly mountain slope, and crashed through brush before hopscotching across rocks over a small creek. At nightfall, we laid out our bivy sacks and sleeping bags within a pine forest because “the canopy will knock heat back to the ground” and allow us to sleep more comfortably, Skurka explained.

We woke early, with the sun’s morning rays filtered through clusters of pine needles. We quickly repacked our gear, devoured granola cereal with powdered milk, hydrated ourselves with cold creek water, and then set out to walk up Deluge Creek to its source, a blinding mountaintop lake from which we lustily drank.

After a day of hiking, a light-hearted camaraderie had started to develop between us. I asked Liam Doren, a professional photographer who had joined us to document the hike, “Can you take a picture of Andrew’s marbled calves glistening in the sunlight?”

“I didn’t know you noticed, Ken,” said Skurka coyly.

“I kind of look at the goal as a motivating excuse,” he said. “The meat of the trip is what happens between the start and finish.”

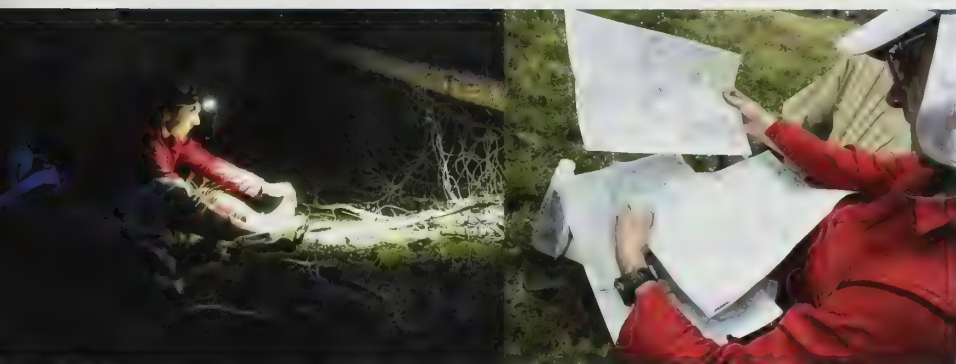
“But when does the enjoyment happen? You could just be a camper and embrace nature.”

“No, you don’t end up with the mental challenges [when you’re just camping],” he said. “By physically challenging myself, [the hike] becomes a mental thing. It becomes a mental thing because of the physical thing. If you just go out and camp, you’re not expanding your comfort zone. You’re not putting yourself outside of it.”

“So part of the fulfillment of hiking is the personal growth and feeling like you’re becoming a different person?”



“Expanding your horizon. Pushing your limits. Understanding your potential. Those are all valid explanations for doing this stuff.”



Later in the day, we reached the top of another spine of mountains, which we'd need to descend to begin our hike back to the trailhead. And that's when we saw the snow.

I'd noticed that Skurka was always eyeing the terrain, sniffing out the best route, avoiding hazards. He'd often guided us down elk trails or alongside creeks because “water knows the shortest way.” I was impressed—astounded, actually—with his knowledge of geology and hydrology, which he'd taught himself on his hikes (or his hikes, rather, had taught him). Earlier, he'd led me over a series of giant boulders so he could giddily show me a chatter mark, a depression caused by scraping of rocks carried by a glacier.

Leading us to the treacherous, snowy descent was the first chink I'd seen in Skurka's hiking armor. We managed to make it down without incident, although I didn't get full feeling back in one of my fingers until months later. But frankly, I was a little relieved to see him in pain and rattled once I reached him on the ledge. He was human after all.

The next morning, we awoke amidst the buzz of mosquitoes around the Willow Lakes, a scattering of icy ponds above 11,000 feet enclosed inside a phalanx of towering spires. We traversed snowfields and climbed Red Peak's rocky slope, reaching the pinnacle at the blindingly bright

height of day. A promenade of mountain goats slowly ascended a gully, looking like white-robed religious pilgrims toiling up to their mountain-peak shrine.

Skurka, standing atop the summit, pointed out the route we'd walked, naming the peaks and passes and water drainages we'd traveled. For two and a half days and thirty miles, I'd kept up with him. But now, watching him read the mountain range like an epic poem of natural history, one written in a language that seemed strange and distant to me, I knew I'd never be the hiker he was. It wasn't his knowledge of bivy sacks or the water vapor transport rate of different types of fabric. It was his curiosity—his embrace of nature as a giant textbook to read and master, his knowing that every curve in a trail and every bend in a river had significance, meaning, something to learn from.

We descended the mountain and hopped back on the main trail, walking toward civilization, where a cheeseburger and victory beer awaited us. In the weeks to come, I'd head off to Alaska (with Skurka's wisdom and a new set of ultralight gear), and Skurka would lead ultimate hiking adventures in Rocky Mountain National Park and New Hampshire's White Mountains.

Still, I kept wondering where nature was in all of this. Did Skurka really love nature? Or just the challenge of it? Then, in the final few miles of our hike, as we walked alongside a placid lake in the heart of the Rockies, I think I got the answer I was looking for.

“For me, I like multi-month backpacking trips because I get really connected with the landscape I'm traveling through,” he said, for the first time since we'd set off, sounding full of Whitman-esque reverie. “You start to watch the seasons. And you start to watch water tables change, and you see different wildflowers come out and the animals start going through their annual patterns of mating and birthing and grazing. The fires kick up in August and September. And then the way the snow changes over the course of the spring.

“And you just don't see that if you're out for the day.”

You have to work for it. And that's what Andrew Skurka likes. ■

*Ilgunas A.M. '11 currently is hiking the track of the 1,700-mile proposed Keystone XL pipeline. His book, *Walden on Wheels*, will be published in May 2013.*

NASHER MUSEUM OF ART AT DUKE UNIVERSITY

Collecting Matisse and Modern Masters

THE CONE SISTERS OF BALTIMORE

November 4, 2012 – February 10, 2013



LEFT: Henri Matisse, *Striped Robe, Fruit, and Arapucayas*, 1940. Oil on canvas, 21 1/2 x 25 1/2 inches. (54.3 x 64.8 cm) DMA 1990.263. © 2012 Succession H. Matisse/Artists Rights Society (ARS), New York.

"...a fascinating look at the Cones' evolving relationships with Picasso and Matisse..."

— *The New York Times*

Tickets on sale now 919-684-4444, nasher.duke.edu/matisse or in person at the museum.
Nasher Museum Members receive two free Matisse tickets per day.



This exhibition is organized by The Baltimore Museum of Art, The Jewish Museum, New York, and the Vassar Museum of Art Gallery in Durham. The initiative is presented in collaboration with the Nasher Museum of Art at Duke University. At the Nasher Museum of Art, postcard support is provided by the Cary Creek Foundation. Local corporate support is provided by Wells Fargo. The media sponsor is WRDZ.

A photograph of autumn leaves, including a prominent yellow one with brown spots, resting on a dark, textured surface. Water is visible, reflecting the leaves and the surrounding environment, which includes dark, leafy branches in the background.

Muse

Reflections: *La Feuille* by David
Lillington '14, from the exhibition
"AQUA: A Photographic Study and
Contemplation on Water," produced
by students in Antonio Bogaert's Art,
Art History & Visual Studies
photography course.

Cinematic Storytelling

From screening scripts to world premieres, a group of Duke friends are creating character-driven films from start to finish.

Family Weekend stars Matthew Modine and Kristin Chenoweth as workaholic parents whose sixteen-year-old daughter (Olesya Rulin) holds them hostage in order to gain their attention and bring the family back together. The quirky comedy, which opens in February, is in the tradition of such offbeat auteurs as Wes Anderson (*Moonrise Kingdom*, *Rushmore*), but in fact it's the first feature-length film by a group of Duke friends.

Adam Saunders '99, Benjamin Epps '00, and Peter Gail '00 are the founding members of Footprint Features, a Los Angeles-based film production company. Saunders produced and acted in the film, Epps directed and co-produced it, and Gail co-produced and acted. Writer-actress Milly Sanders '99 works in the company's creative department.

"At Footprint we are creating character-driven stories that appeal to a mainstream audience," says Saunders, Footprint's CEO.

"We're drawn to movies like *Little Miss Sunshine* and *Juno*, which celebrate the importance of character, even if those characters are dysfunctional or eccentric. We're very focused on the creative process—*Family Weekend* went through nineteen rewrites—and we're finding that people who are veterans in this business want to be a part of what we're doing. We've had an amazing number of people who have helped us along the way." One of those is Academy Award-winning filmmaker and producer Edward Zwick (*Shakespeare in Love*, *Traffic*), whose Bedford Falls Company helped produce *Family Weekend*.

After graduating from Duke, the group of friends formed a theater company called Footprint on the Sun to nurture new talent and produce ambitious works

for broad audiences. It was good training for running a DIY film company: Footprint Features was formed in 2007. Saunders says that he and his colleagues relish

Footprint already has two other feature-length projects in the queue. *Seven Years, Three Days*, written by Jesse Zwick, is a modern-day exploration of friendship, adulthood, and loss through the eyes of a group of college friends brought together by tragedy. And *When We First Met*, a cross between *500 Days of Summer* and *Groundhog Day*, follows a young man who travels back in time, repeatedly, to



"One of the first plays I tried out for at Duke, I didn't get cast."



Behind (and in) the scenes: Epps and Saunders, top left; Epps directs; Gail and Saunders in *Family Weekend*.

the start-to-finish nature of what they do, from finding a great script and lining up talent to shooting, doing post-production, and negotiating distribution deals.

"As an actor you can feel powerless since you have no control over the finished product," he says. "One of the things we love about Footprint is that we're in charge of everything; each decision we make profoundly affects the final product."

woo a woman with whom he's smitten—to varying degrees of success.

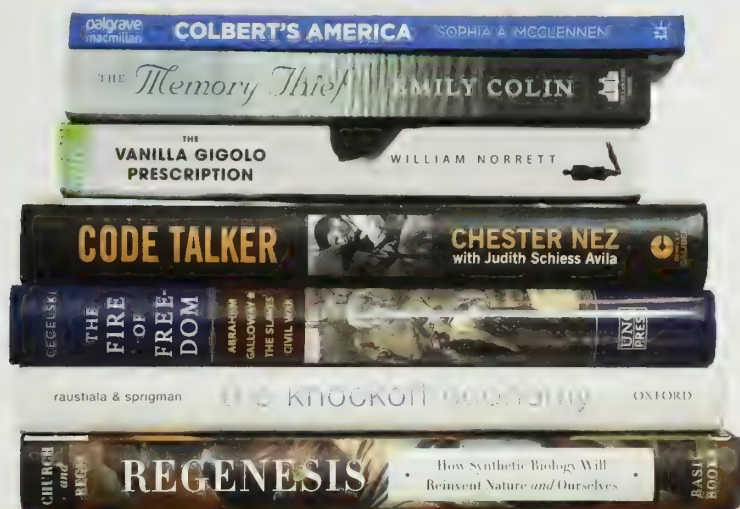
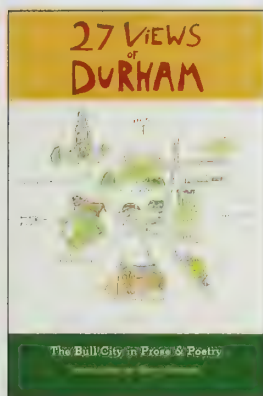
"One of the first plays I tried out for at Duke, I didn't get cast," says Saunders. "[Theater professor] John Clum said to me, why don't you do your own play? That was profound to me, to realize that I could be in control of the kind of work I wanted to do. That same impetus is what drives us today."

BOOKS

Bull City View

Our city attracts more than its share of journalists and bloggers, essayists, and advocates, historians, and slam poets,” writes Durham City Council member and *The Independent* cofounder **Steve Schewel** ’73, Ph.D. ’82 in the foreword of *27 Views of Durham*. “They embrace the clang and clamor. They want to argue, proclaim, to laugh out loud, to write late into the night.”

The fourth in a series of anthologies by Hillsborough-based Eno Publishers, the book includes contributions by English professor emeritus and poet **James Applewhite** ’58, whose sublime poem “In the Gardens Beside a Library” captures the poignant immutability of time’s progression, with Duke as a backdrop. The Regulator Bookshop co-owner **John Valentine** ’71, who has witnessed decades of literary trends, recalls the arrival of Harry Potter on Ninth Street. And author and journalist **Jim Wise** ’70 considers the city’s “sometimes ugly, more often ridiculous” political and civic clashes over things like rooftop cow statues and oversized American flags (and why he wouldn’t live anywhere else).



Eric Postel

PAGE TURNERS

Sophia McClennen A.M. ’92, Ph.D. ’97 explores how comedian Stephen Colbert has shaped political discourse in **Colbert’s America: Satire and Democracy**. Emily Colin ’97 weaves together dual plots around themes of love and loss in **The Memory Thief**. William Norrett ’91 shows Hollywood’s unglamorous fringe, replete with struggling improv comedians, blackmail attempts, and a murder case, in **The Vanilla Gigolo Prescription**. Judith Schiess Avila ’70 captures the story of **Code Talker** Chester Nez, the last living Navajo recruited by the Marines to create a secret code—included in the book—during World War II. Historian and folklorist David Cecelski ’82 paints a vivid picture of a young slave rebel, radical abolitionist, and Union spy in **The Fire of Freedom: Abraham Galloway and the Slaves’ Civil War**. Kal Raustiala ’88 makes the case that imitation sparks innovation in **The Knockoff Economy**. George Church ’74 explains how synthetic biology will reinvent nature and what it means to be human in **Regensis**.

Muse is written and edited by Bridget Booher. *Duke Magazine* is interested in hearing about alumni creative works. Please send news of publications, exhibitions, films, music, and other creative works to dukemag@duke.edu.

MUSIC

La-la-la-Latvia

Opera singer: not the first career choice of your average Blue Devil. The typical opera singer, if there is such a thing, goes to conservatory, followed by a master’s in singing, then a preprofessional program at an opera house, and finally, a career. But Talya Lieberman ’07 has been forging her own path, one that will take her to Latvia on a Fulbright Scholarship to study her craft in a country with a little-known penchant for the musical form.

Latvia may be an unusual choice, but Lieberman, a classically trained pianist who majored in linguistics, minored in music, and received a scholarship to pursue a master’s in trumpet at the North Carolina School of the Arts after Duke, is all about unusual choices. While at NCSA, Lieberman began writing her



Anna Wu Photography

own music for a rock band and rediscovered her voice—literally. Trumpet was over, the band was a nice hobby, and Lieberman didn’t know what should come next. But she noticed she was frequently growing hoarse, so she consulted a ninety-nine-year-old relative who is a respected voice coach. Never one to shy away from a challenging piece of music, Lieberman launched into “Glitter and Be Gay” from *Candide*, one of the most notorious soprano arias. With her relative’s vote of confidence, Lieberman found herself at a turning point. “I had given up on music when really, in retrospect, it is who I am. I feel like I finally found my instrument.”

After two more years of voice lessons and workshops on the side (Lieberman worked in a psychology lab at the University of Pennsylvania’s medical school), she felt ready to apply for a Fulbright. Knowing that most opera singers apply to study in Italy or Germany, Lieberman looked elsewhere. She discovered that Latvia—a country the size of West Virginia—produced four singers in the current Metropolitan Opera House’s roster. “I’m told that everybody goes to the opera— young people, old people, it’s just something they love,” Lieberman says. “I’m excited to be a part of a culture where opera is really valued, and really interested to find out why that is.”

Sports

Senior Moment

Five Duke seniors reshape the culture of the women's soccer team. | By Elissa Lerner

In spring 2010, the rising seniors of the Duke women's soccer team were not pleased. The fall season had ended abruptly with back-to-back losses in the quarterfinals of the ACC tournament and the first round of the NCAA championships. That might have been considered a decent season, but the team's leaders, who had advanced to the Elite Eight the two previous years, expected more. During the team's spring training, they gathered the team for a mental and emotional overhaul.

The meeting rattled then-freshmen Tara Campbell, Libby Jandl, Erin Koballa, Nicole Lipp, and Maddy Haller. During the course of the injury-riddled 2009 season, all five had become starters, creating a promising young foundation. But the upperclassmen were right: If the team was going to meet its potential, they needed to do more.

"Whatever it takes," they told themselves.

It's late October 2012, and the women's soccer season is winding to a close. At Tuesday's practice, typically the hardest one of the week, the team wears black shirts that read "Compete." Now seniors, Campbell, Jandl, Koballa, Lipp, and Haller are the ones setting the tone. They still have unfinished business.

After reaching the second round of the NCAA tournament in 2010, Duke advanced to the championship game last season, suffering a heartbreaking 1-0 loss to Stanford. But while last year's success came as a surprise, this year's team entered the season ranked second nationally.

"Last year no one really knew about us. Now, there's a target on our back," says junior forward Laura Weinberg.

Weinberg leads the team in scoring—at press time she ranked third in the NCAA in goals per game—but it's fitting to the character of the team that there's no single

standard-bearer. There are forwards Kelly Cobb '15 and Mollie Pathman '14, who missed the team's first few games while winning a gold medal at FIFA U-20 World Cup in Japan. There is senior keeper Tara Campbell, who with thirty career shutouts is closing in on Duke's all-time record. There is Kim DeCesare '14, a defender-turned-midfielder-turned-striker who honed her ball skills and reflexes in part by practicing kicks inside a racquetball court.

And then there's Jandl, who may embody the team's workmanlike spirit better than anyone. Although she wasn't heavily recruited in high school, Jandl wanted to play for Duke, where her two older sisters had gone. She attended a Duke soccer

camp after her sophomore year of high school, but still received little interest from Duke coach Robbie Church. But after calling Church repeatedly during the next two years, Jandl convinced him to take her as a walk-on. "We both thought I wouldn't play for four years," she says. "But I came here thinking I had nothing to lose."

Jandl sought out extra practice time with associate head coach Billy Lesesne and absorbed Church's honest critiques. After pushing herself further than anyone thought possible, she earned a spot in the starting lineup for an October 2009 game against perennial powerhouse Florida State. The Blue Devils held the Seminoles to a shutout draw, and Jandl has been a starter ever since.

"Our class has this blue-collar attitude, this 'whatever it takes' motto," Jandl says. "When we were younger, we'd have to win a game or else miss the ACC and NCAA tournaments. We remember those times."

That sense of hunger is crucial to the team's identity. Before the season, they met with Greg Dale, a sports psychologist who works with several of the Blue Devil squads, to create a set of "core values," a team ethic forged in the crucible of that painful 2010 spring.

"We'd sit there for hours [with Dale] ar-



No 1 in tee: Tabria Williford and Maddy Haller in the team's "Compete" shirts

DUKETICKER

FACILITIES: Duke Athletics received a \$10 million gift from **Steven and Rebecca Jensen Scott** (HS '78 and A.H.C. '79, respectively), the largest in the athletic department's history. The gift will support activities and programs in a new 35,000-square-foot building that will be home to ticket offices, a team store, and training rooms for Olympic sports. The new building is part of a major upgrade to athletic facilities envisioned as part of the Duke Forward campaign.

SENIOR CLASS: Duke quarterback **Sean Renfree** and soccer goalie **Tara Campbell** are finalists for 2012 Senior CLASS (Celebrating Loyalty and Achievement for Staying in School) awards, presented each year to an outstanding student-athlete in each of nine NCAA sports. Finalists are chosen for significant contributions in the community, classroom, and competition. Renfree, a public policy major, and Campbell, a civil engineering major, are both active in several Durham-area service projects.





Goal oriented: Senior midfielder Nicole Lipp attacks against Boston College.

thing toward this team-first mentality," she says. "It was important to realize this was bigger than myself."

It's a difference they've seen in themselves—and their opponents. At a recent game against Boston College, the Blue Devils were shocked to see how divided their opponents were, arguing with each other on the field. "Petty stuff, that kind of drama just doesn't happen here," says Koballa. "It sounds so simple but those three little words—it's amazing how much they've created a backbone."

As the magazine went to press, the team was preparing for its postseason run, one where any stop before the December 2 championship game could be considered a disappointment. But the players think they have the right formula for making that season stretch as long as possible. The seniors created core values that have become inextricable from this team, and they laid a foundation for the younger players to establish their own legacies. "After we leave, they'll meet with Greg to rehash the team identity. They have to do it for themselves," Haller says.

For now, the formula is working. "This program has made me grown-up and become a person," says Koballa. "It's so weird that a little ball on a field can make you learn that. I want other people to feel that same way when they leave here."

It's simple math, then, the calculus of this team. Three little words. One little ball. Four big years.

guing about words—whether 'accountability' or 'trustworthiness' was more important," says Maddy Haller. Ultimately, they settled on commitment, competitiveness, and respect. The team manifesto hangs in every player's locker, and it's distributed before each biweekly meeting with Dale. Those meetings usually involve exercises—such as sharing a meaningful photograph from childhood or discussing something they struggle with—that are designed to build trust and deepen the players' understanding of each other.

"They made a concentrated effort to improve the culture on the team," Dale says. "To their credit, they didn't just talk about it, they started living it."

Dale also has taught the players how to guard against the pitfalls of striving too hard for success—that relentless quest for

"effortless perfection" so common at Duke. "Perfectionism and self-criticism can make these players very hard on themselves. It can drive you to work harder, but it can also undermine your ability to be successful," he says. "They need to learn how to coach themselves in a constructive, positive way. They'd never talk to a teammate the way they talk to themselves nor the other way around."

And so, three years later, perhaps the greatest success of the Duke women's soccer team isn't necessarily going from a first-round loss to the championship match, but rather how much this team has become a family. Thinking back to her first year, Erin Koballa remembers how self-involved each player was on the field—and how much it wasn't working. "I had to learn to put the team first, to put every-

FOOTBALL: Wide receiver **Conner Vernon '13** became the ACC's all-time leader in receptions in an October 6 game against Virginia. The senior broke the old record of 232 catches and added a pair of touchdowns in Duke's 42-17 win. At press time, he was closing in on the ACC mark for career receiving yards.

MEN'S BASKETBALL: Coach **K** and the Blue Devils traveled to North Carolina's Fort Bragg in October for a practice and workout. The team went through troop conditioning, including an obstacle course, before practicing in front of the troops stationed at the military base.

ACADEMICS: Six Duke athletes were presented Academic Excellence Awards by IA FAR, an organization of faculty athletics representatives at NCAA Division I schools. The awards honor student-athletes who graduate with at least a 3.8 grade point average. The Blue Devils recognized were **Tori Arendt** (rowing), **Megan Deakins** (field hockey, cross country, and track), **Sophia Dunworth** (volleyball), **James Kostelnik** (cross country), **Jessica Lyden** (swimming and diving), and **Leslie Morrison** (cross country and track).



Photos by Jon Gardiner



Johndre Bennett
Freshman, Wide Receiver

Mackenzie Sovereign
Sophomore, Quarterback

Emmanuel Watkins
Sophomore, Linebacker

Teddy Force
Senior, Offensive Tackle

Elizabeth Dunn
Research Services Librarian
Rubenstein Library

CRAZY SMART

A great library is like a stadium of the mind.

It's where the game of knowledge is played, problems are tackled, and the best mental moves go down in the books.

The next time you attend a Duke sporting event, check the back of your ticket. For every ticket sold to regular season home games, Duke Athletics will donate one dollar to the Duke University Libraries.

When you show your support for the Blue Devils, you're not just rooting for these guys. You're helping us make big plays for the entire Duke community, like the upcoming renovation of the David M. Rubenstein Rare Book & Manuscript Library.

That's not just smart. That's crazy smart.

Go for the big play. Support Duke University Libraries.

library.duke.edu/crazysmart

DUKE UNIVERSITY
LIBRARIES

DAA CONNECTIONS 56

LIFE'S BROAD SEA 58

CLASSNOTES 59

CLASSIFIEDS 77

School spirit: The Duke Alumni Association's annual Forever Duke block party, left, kicked off the start of the fall semester; below, behavioral economist Dan Ariely Ph.D. '98 and football pep rally during Homecoming 2012.



Les Todd



DUKE ALUMNI ASSOCIATION

Les Todd

www.dukealumni.com



Les Todd

"Visiting Duke any time is always Homecoming!"

Marcia Kyzer Allen '71, on the Duke Alumni Association Facebook page

DAAConnections

ENGAGE. CONNECT. CELEBRATE.

Devilish Dining

From Eastern North Carolina barbecue to rustic Mediterranean fare and Northwestern haute cuisine, a network of Duke foodies—owners, bakers, executive chefs—offers something for every palate.



Dorian Bolden '02

Beyu Caffé Downtown Durham

Concept: Coffeehouse, bistro, and bar serving breakfast, lunch, and dinner.

Start: Natural-cut French fries topped with cheese, bacon, scallions, and jalapeños

Finish: Vegan chocolate mousse, topped with raspberry compote and fresh seasonal fruit, coconut whipped cream, and mint



Frances Gualtieri M.B.A. '83

La Résidence Chapel Hill

Concept: American-inspired twist on French cuisine

Start: Shrimp and grits with North Carolina shrimp, mushrooms, roasted pearl onions, lobster-and-sausage broth, and tomato Gournay grits

Finish: La Résidence butter almond ice cream with biscotti

Scott Dolich '90

Park Kitchen and The Bent Brick

Portland, Oregon

Concept: Inventive American fusion

Start: Duck and huitlacoche crepe with poblano cream

Finish: Double-chocolate tart with salted caramel and hazelnut ice cream



Donna Lennard '83

Il Buco

East Village, New York

Concept: A rustically elegant, locally sourced Mediterranean restaurant with an emphasis on handmade and artisanal pastas and risotto

Start: Salumi, a selection of salted meats and American-cured prosciutto

Finish: Panna Cotta all' Aceto Balsamico, a "cooked cream" drizzled with ten-year aged balsamic vinegar

John Fleer '86

Canyon Kitchen

Lonesome Valley, North Carolina

Concept: Farm-to-table fare in an elegantly casual setting

Start: Hazelnut-crusted wild striped bass with lentils du Puy, root vegetables, and maple-glazed Jolley Farms red-curry squash

Finish: S'mores with graham cracker churros, toasted-marshmallow ice cream and hot cocoa bisque



Courtesy John Fleer



Vijay Brihmadhesam B.S.M.E. '07, Hasnain Zaidi '08, and Jason Pate '09

Tava Indian Kitchen Palo Alto, California

Concept: Indian fast-food restaurant where customers get to mix and match a base (a rice or salad bowl or a "burroti," an Indian burrito) with a sauce, a protein, and a chutney

Start: Chicken burroti in tikka sauce with cilantro chutney

Finish: Mango Lassi

Carson Coatney '97

Stick Boy Bread Company

Boone and Fuquay-Varina, North Carolina

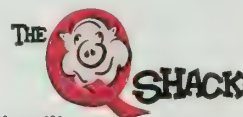
Concept: Artisan bakery featuring high-quality baked goods made from scratch daily

Start: Cinnamon rolls

Finish: "Magic cookies" with chocolate chips, pecans, coconut, and marshmallows



www.stickboybread.com



Tom Meyer '91

The Q Shack (Raleigh, Charlotte) and Sprout Café

(Museum of Life and Science, Durham)

Concept: Locally owned BBQ restaurants specializing in smoked meats and handmade side dishes from local farms and ranches (Q Shack); farm-to-table fare with an emphasis on healthy, family-friendly options (Sprout Café)

Start: Pulled-pork plate with fried okra and mashed sweet potatoes (Q Shack); Curry red-lentil soup with chickpeas and quinoa (Sprout Café)

Finish: Homemade cobbler (Q Shack), brownie bar (Sprout Café)

Bharet Malhotra '97

Co Co Sala

Washington, D.C.

Concept: Global cuisine, espresso and chocolate-based drinks, artisanal chocolates, pastries
Start: Blue cheese beef sliders with Meyer



Courtesy Bharet Malhotra

Angus beef, Co Co mole, sautéed spinach, and wild mushrooms
Finish: The Co Co Grown Up: milk-chocolate and peanut butter gelato, Bananas Foster, mini Co Co cupcake, and malted shooter

Pelham Wilder Jr., a former university marshal and professor emeritus of chemistry who taught for more than fifty years at Duke University, died October 6, 2012. He was ninety-two.

Wilder taught pharmacology in Duke's School of Medicine from 1977 to 2000, the year he retired as the University Distinguished Service Professor and professor emeritus of chemistry.



Chris Hildreth

As university marshal from 1977 to 2000, he led the procession at the university's most significant occasions—opening convocation, Founders' Day, commencement—and was responsible for organizing details and

making decisions about the operation of the ceremony. In 1971, he was one of the inaugural winners of Duke's Alumni Distinguished Undergraduate Teaching Award, and in 1993, he received the University Medal for Distinguished Meritorious Service.

Wilder was born on July 20, 1920, in Americus, Georgia, and raised in Savannah. He received undergraduate and master's degrees from Emory University and a master's and Ph.D. from Harvard University. In 1949, after three years as a teaching fellow at Harvard, Wilder accepted a position as an instructor with Duke's chemistry department, where he taught undergraduate and graduate students for half a century.

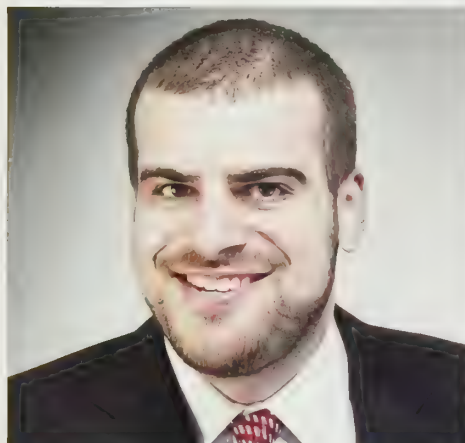
Wilder served with the U.S. Navy during World War II and continued his work with the Navy ROTC after leaving the service. He held several leadership roles with the Association of NROTC Colleges and Universities, serving three terms as the association's president from 1982 to 1988. He represented Duke on the association for more than twenty-five years. In 1993, he received the Distinguished Public Service Award from the Secretary of the Navy for his efforts, and in 2005, he was honored by the National Naval Reserve Officer Training Corps.

He is survived by his children Ann Wilder; **Pelham Wilder III** '73 and his wife, Susan Shaw; and **Sterly Lebey Wilder** '83, Duke's associate vice president for alumni affairs. He also is survived by grandsons **Pelham Wilder IV** '05, J.D. '08 and Andrew Davidson Wilder; and daughter-in-law **Lee Davidson Wilder** '73.

How are you **ForeverDuke**?

When **David Morgenstern '08** found out, after his acceptance to Duke, that he was selected to be a Robertson Scholar, he didn't yet know the lasting impact it would have on his life.

Growing up in Shaker Heights, Ohio, Morgenstern was surrounded by a community willing to have difficult conversations about social issues, ones he saw playing out regularly on the basketball court (where he was the only white player) and tennis court (where there were only one or two nonwhite players). Morgenstern brought his open mind to Duke, where he saw communities break down and come together over shades of black, white, and blue.



Courtesy Gerson Lehrman Group

"Being a Robertson allowed me to continue finding and developing new communities, both domestic and abroad," says Morgenstern of the full-tuition scholarship for Duke and UNC students, who take courses at both schools and spend a semester in residence at the other campus. In a way, Morgenstern's experiences foreshadowed today's civic-minded Blue Devils. He started with a "domestic-abroad" summer, living in rural Mississippi while working with a lawyer on preventing illegal home foreclosures just a few

years before the housing bubble burst. The following summer brought him to a small school in Cape Town, South Africa, well before DukeEngage was on every student's to-do list.

The common thread for Morgenstern has always been his focus "on the fact that people are people." At Duke, he worked with Know Your Status, a free HIV-testing program, and was heavily involved with the Center for Race Relations, facilitating its annual Common Ground retreat for three years.

In the short time since graduating, Morgenstern has continued to make community engagement a priority both in and out of the workplace. At Gerson Lehrman Group in New York, Morgenstern cofounded the GLG Social Impact program, which identifies companies with social impact and provides pro bono financial consulting services. He volunteers with the Trevor Project, the national LGBT teen suicide prevention hotline, and recently joined the Duke New York Regional Board, serving on the budget committee and as liaison to the university's LGBT alumni network.

"It's really interesting to see what Duke means to people at various stages in their careers," he says. "There are these really successful, smart people anywhere from five to thirty years out of school, and hearing how they take that Duke experience and apply it to life is fascinating."

With his five-year reunion approaching fast, Morgenstern will get a chance to see how the Duke experience has played out among his classmates. "I can't wait to see where everyone is," he says. "I think there will be a level of excitement that feels like our first day of freshman year, except this time everyone won't be terrified."

—Elissa Lerner

Life's Broad Sea

ALUMNI IN THE SPOTLIGHT | By Bridget Booher



Sarah Dieggen

Tori Hogan '04 had all good intentions when she traveled to Kenya as an intern for Save the Children. But during a classroom visit to ask refugee children about their needs, a tall Somali boy named Ahmed turned the conversation around.

"A lot of aid workers come and go, but nothing changes," he told her. "If the aid projects were effective, we wouldn't still be living like this after all these years. Do you really think you have the answer to our problems?"

Ahmed's question stopped Hogan in her tracks. She decided to learn more about what works (and what doesn't) in the international-

aid landscape. She taught herself filmmaking and put together *Beyond Good Intentions*, a ten-part film series shot on location in eight countries that explores subjects ranging from the role of international aid volunteers to micro-lending and social entrepreneurship. And she

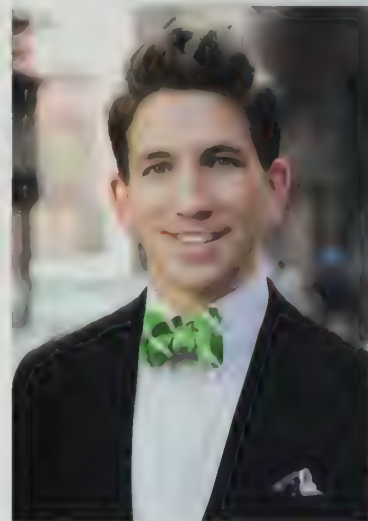
earned master's degrees, in forced migration and refugee studies from the American University in Cairo and in international education policy from Harvard.

In her new book, *Beyond Good Intentions: A Journey Into the Realities of International Aid*, Hogan shares her personal quest to return to Africa to find Ahmed and explore the implications of his challenging question. She recounts her visits to a range of organizations that receive aid to determine why well-intentioned efforts routinely get thwarted by systemic problems such as poverty, corruption, and lack of accountability.



Got \$5 million to spend on an Irving Place co-op? New York real-estate broker **Mickey Conlon '98** is your man. Conlon, senior vice president of CORE, represents upper-echelon buyers and sellers. He has passed the \$1 billion mark for residential sales and currently is featured on the hit HGTV show *Selling New York*. December's Season Six premiere follows Conlon and his partner, Tom Postilio, as they prepare to put legendary actress Joan Collins' East 57th Street pied-à-terre on the market.

A native New Yorker, Conlon used to tag along with his real-estate agent mother as she worked with buyers and sellers. Even though he earned his real-estate license while a freshman at Duke, he didn't pursue it as a full-time career until 2008. "I was working on Broadway as a producer, and when the economic downturn came, people were disinterested in putting money into Broadway shows. It might seem counterintuitive to go into real estate at the start of the worst market in decades, but I knew that slices of Manhattan were an investment that people could embrace knowing that it would retain value over time. Try using that same pitch with a potential Broadway investor!"



Robert Wright



Joseph Lin

Not many one-year-olds can boast the success of The Daily Muse. Launched in the fall of 2011, the site for professional women was started by **Kathryn Minshew '08** and her partners Alex Cavoulacos and Melissa McCreery as a one-stop site for professional women. The site includes advice on jobs, health, money, travel, style, tech, and education. Within three months, the site had attracted 100,000 visitors. As it celebrated its one-year mark, that number had grown to 1.5 million.

Minshew's Duke connections helped along the way. In 2008, she won the DukeGEN (Global

Entrepreneur Network) competition and attracted the interest of investors and mentors Lisa Blau '97 and Thomas Lehrman '95. Minshew and her cofounders were accepted into the Y Combinator winter 2012 class, one of the few women-run companies accepted into the highly competitive entrepreneurial "fast-track" program. This past summer, *Forbes* named The Daily Muse one of the top websites for women, and Minshew as one of this year's 30-Under-30 in Media.

Board of Directors, 2012-13

President: Jeffrey C. Howard '76

Secretary-Treasurer: Sterly L. Wilder '83

Vice Presidents:

D. Michael Bennett '77, Julie Borger Ferguson '81,
Roseann Viscomi Hassey '83, N. Shepard Moyle '84,
Carmichael Roberts Jr. '90, Ph.D. '95, Lee H. Roberts '90,
Suzanne M. Rose '94, Kathleen Kaylor Wagoner '77

Duke Magazine Editorial Advisory Board representative:

Sarah Hardesty Bray '72

Directors-at-large:

Betsy Alden '64, Jack W. Boyd '85, Christopher Brandt '00,
Sharon Stephens Brehm '67, Ph.D. '73, Mandeep Singh Dillon '92,
Palmer Peebles Garson '79, Cecelia Gassner '94,
Nikki Hurst Gibson '80, Jason Goode '97, J.D. '00,
Winston Henderson '90, J.D. '96, Edwin Howard Jr. '63,
C. Howard Nye '84, Joanne M. O'Connor '92, Rodney C. Pitts '68,
Kimberly Dawn Reed '86, Pamela Stone Scheerer '73,
Mark E. Stalneck '73, Paul Teller '93, John Tolsma '95,
Wendy Tsai '92

Professional school representatives:

Carmichael Roberts Jr. '90, Ph.D. '95,
Graduate School of Arts and Sciences
Wyman Fraser Davis '87, M.Div. '95, Divinity School
Robin Ten Kate M.B.A. '03, Fuqua School of Business
Charles F. Finley Jr. M.F. '67, Nicholas School of the Environment
Ershela Sims B.S.E. '93, Pratt School of Engineering
Amy Hepburn '97, M.P.P. '01, Sanford School of Public Policy
John A. Howell '72, J.D. '75, School of Law
Diana Bures McNeill '78, M.D. '82, School of Medicine
Kathleen Viall Gallagher B.S.N. '75, School of Nursing
Judith Ann Maness M.H.A. '83,
Graduate Program in Health Administration
Allen William Wicken M.S. '74,
Graduate Program in Physical Therapy

Young alumni representatives:

Connie T. Chai '10, Kathryn Laidlaw '04,
James Pineda '05, M.B.A. '11, Danielle Horvitz Weiner '04

Faculty representative:

Michelle Connolly, Associate Professor of the Practice of Economics
Alexander Hartemink '94, Associate Professor of Computer Science,
Statistical Science, and Biology

Student representative:

William Hunt G '15
President, Graduate and Professional Student Council

Honorary members:

William E. King '61, A.M. '63, Ph.D. '70, Michael Schoenfeld '84,
Suzanne J. Wasiolek '76, M.H.A. '78, LL.M. '93,
Gerald L. Wilson B.D. '61, A.M. '68

Presidents, School and College Alumni Associations

David C. Hockett M.Div. '94, Th.M. '99, Divinity School
Lynne S. Kaye M.B.A. '82, Fuqua School of Business
Leslie Pearlman Jamka M.E.M. '99,
Nicholas School of the Environment
J. Michael Drozd '89, Ph.D. '97, Pratt School of Engineering
John S. DeGroote J.D. '90, School of Law
Dale R. Shaw '69, M.D. '73, School of Medicine
Joan M. Stanley B.S.N. '71, School of Nursing
Judith Ann Maness M.H.A. '83,
Graduate Program in Health Administration
Allen William Wicken M.S. '74,
Graduate Program in Physical Therapy

Duke
ALUMNI ASSOCIATION

ClassNotes

Want to be featured in Class Notes?

Check out www.dukemagazine.duke.edu for style tips and submission guidelines, or e-mail us at dukemag@duke.edu.

1940s

Edwin Polokoff '44 published *Mother Merrill Is Dead: And Other Things I Witnessed But Never Saw Coming*, a collection of essays about the author's experiences, including working for 50 years at Merrill Lynch and serving as a Navy officer during World War II.

Charles Blanchard '45, J.D. '49 received the 2012 Advocate's Award from the litigation section at the North Carolina Bar Association's annual meeting. He is a past president of the Wake County Bar Association and works at Blanchard, Miller, Lewis & Isley in Raleigh.

1950s

Carroll M. "Bud" Robinson Jr. '53 developed a paradigm for the apparel and textile industry that has the potential to save billions of gallons of fresh water. Microsoft is doing a case study of the project.

Martha Erwin Uzzle '55 published *Southern Delights Cookbook*, a compilation of recipes of Josephine Knox, Hope Valley Country Club's first cook.

Donald K. Fry Jr. '59 published his first novel, *How to Shoot Your Father*, for Amazon Kindle. The story follows two boys trying to live like downed Navy pilots in Raleigh in 1946.

1960s

H. Houston Groome Jr. '60 was inducted into the North Carolina Bar Association's General Practice Hall of Fame. He has practiced law in Caldwell County since 1967 and is a founding partner at Groome, Tuttle, Pike & Blair in Lenoir, N.C.

Martha Tovell Nesbitt '61, M.A.T. '62 was honored by Gainesville State College, which named its largest academic building for her. She retired as president of the Georgia college in June.

'63 50th Reunion April 12-14, 2013

A. Everette James Jr. M.D. '63 published *Knights in White*, a novella about the competitive nature of American academic medicine.

Arthur Marvin Quattlebaum '63 of the Greenville, N.C., office of Smith Moore Leatherwood has been included in *The Best Lawyers in America 2013*. He concentrates his practice in residential, commercial, and industrial real estate law.

David W. Long '64 was elected into the Fellows of the American Bar Foundation. A partner in the

Raleigh office of Poyner Spruill, he focuses his practice on complex business litigation and business-related white-collar criminal defense.

Eura D. Gaskins Jr. '66, managing partner of the Raleigh law firm Everett Gaskins Hancock, was inducted into the North Carolina Bar Association's General Practice Hall of Fame. He is a past president of the Wake County Bar Association and a recipient of the WCBA's Joseph Branch Professionalism Award.

Samuel Southern '66 was included in *The Best Lawyers in America 2013*. He practices in the Raleigh office of Smith Moore Leatherwood and specializes in health care and medical malpractice law.

Pamela N. Odell Price '67 was included in *The Best Lawyers in America 2013*. She is a shareholder of GrayRobinson and specializes in trusts and estates and tax law in the Orlando, Fla., office.

'68 45th Reunion April 12-14, 2013

Patrick D. Coleman '68 was included in *The Best Lawyers in America 2013*. He practices labor and employment law, litigation, and appellate and mediation law in the Jacksonville, Fla., office of GrayRobinson.

Phillip R. Finch '69 was included in *The Best Lawyers in America 2013*. He practices in the Orlando, Fla., office of GrayRobinson, specializing in commercial real estate.

Robert A. Herrin '69 published his e-book, *elf-Dogs*, on Kindle Books. The urban fantasy for young adults includes elements of poetry and historical fiction.

Samuel Johnson '69, J.D. '72 was elected into the Fellows of the American Bar Foundation. He practices corporate, business, and commercial real estate law and is a partner in the Raleigh and Rocky Mount offices of Poyner Spruill.

Charles D. Williams '69 was named Outstanding Tree Farmer of the Year at the Annual National Tree Farmer Convention for the central region of the American Tree Farm System. He owns and manages West Wind Farm in Munfordville, Ky.

1970s

T. Richard Kane '70, LL.M. '86 was elected into the Fellows of the American Bar Foundation.

Call for Nominations for Volunteer Awards

The Duke Alumni Association seeks nominations for its three prestigious alumni volunteer awards: the Distinguished Alumni Award, the Charles A. Dukes Award, and the Forever Duke Award. To learn more about the awards, or to nominate a candidate, please fill out and submit the online nomination form at www.duke.edu/alumni.com/about-daa/awards-scholarships/awards. **The deadline for all award nominations is March 1.**

He specializes in environmental law and attorney professional-responsibility issues as a partner in the Raleigh and Charlotte offices of Poyner Spruill.

Carter Wisely Leinster '70 led her financial-planning firm, Triad Financial Advisors, through a merger with Independent Wealth Management. She has been president and CEO of Triad Financial Advisors in Greensboro since 1982.

Janet Bixby Arrowsmith '71 was honored by the New Mexico Medical Society for her work in fighting the human trafficking industry in New Mexico. She serves as board president of New Mexico Organized Against Trafficking Humans and maintains a consulting practice on FDA regulatory issues.

Barbara C. Ruby '71 was recognized by her peers for inclusion in *The Best Lawyers in America 2013*. She specializes in corporate and tax law at Smith Moore Leatherwood in Greensboro.

Harry C. Stokes '71, M.E. '74 received the World Bioenergy Award in Jönköping, Sweden, for his development of Project Gaia, an initiative to provide clean, efficient, and safe cooking in

African homes. The project promotes alcohol fuel for cooking and other household appliances.

Anna Eblen '72 was honored with the establishment of a scholarship in her name at Western Washington University in Bellingham, Wash. She is retiring from the university after 26 years serving as a professor, chair of the communications department, and American Association of University Women board member.

'73 40th Reunion April 12-14, 2013

Mark Foster J.D. '73 was elected to the Park University board of trustees. After serving for 15 years as managing partner of Stinson Morrison Hecker in Kansas City, Mo., he now operates his own corporate litigation practice.

T. Irene Sanders B.S.N. '73 joined the World Economic Forum as a founding member of its Global Agenda Council on Complex Systems. She is the executive director and founder of the Washington Center for Complexity and Public Policy and the author of *Strategic Thinking and the New Science: Planning in the Midst of Chaos, Complexity, and Change*.

William Cunningham Ph.D. '74 published the fictional e-book *America: The Conspiracy Theory*, a novel that focuses on the intense and spirited lives of two senators and the political intrigue that shapes their work.

James S. Bain '75 published *Never Pass on a Chance to P*, a motivational book showcasing classic lessons for living a successful and happy life. Bain is the founder and president of Falcon Performance Institute in Ocala, Fla. He is a professional motivational speaker, author, and coach.

Mark P. Thomas '75 was appointed to the board of trustees of Princeton Theological Seminary. He is pastor and head of staff of Ladue Chapel Presbyterian Church in St. Louis.

Elizabeth B. Bergen Zabak '76 was elected to serve on the advisory board of the University of California Hastings Leadership Academy for Women. Zabak is the chief marketing officer of Carlton Fields in Tampa, Fla.

Mark Murray '77 published *On the Shoulders of My Teachers*, an e-book recounting his experiences with some of his most influential teachers in his life. He is a professor of music at Anderson University in Anderson, Ind.

Maureen Demarest Murray '77 was recognized in *The Best Lawyers in America 2013*. She specializes in health-care law at Smith Moore Leatherwood in Greensboro.

'78 35th Reunion April 12-14, 2013



Your gift to Duke can be part of a smart financial plan.

Duke offers a range of giving vehicles that may help you:

- realize immediate tax savings
- transfer assets to a loved one with a reduced tax liability
- generate a life income for yourself and/or your loved ones
- reduce or eliminate income, capital gains, or estate taxes
- and make a more significant gift than you imagined possible!

Let us help you and your financial advisors develop a gift plan that meets your financial and philanthropic goals.

Duke University Office of Gift Planning
Box 90600, Durham, North Carolina 27708
Phone 919-681-0464
Email gift.planning@dev.duke.edu

Explore gift plans at
dukeforward.duke.edu/giftplanning

Jeffrey W. Garland '78 was named vice president and university secretary at the University of Delaware. He previously held leadership positions at Fisker Automotive, Bank of America, and MBNA America Bank.

Caroline Hudson Lock '78 was recognized by her peers for inclusion in *The Best Lawyers in America 2013*. She specializes in workers' compensation at Smith Moore Leatherwood in Greensboro.

Douglass T. Davidoff '79 celebrates recovery from seven years of debilitating depression and anxiety. He is reinvigorating his consulting practice, Straight Talk Public Relations.

MARRIAGES & COMMITMENTS

Kathryn Sudduth Clark '74 to David Spurrier on Sept. 22, 2012. Residence: Gastonia, N.C.

1980s

Charles Berardesco '80 was named senior vice president and general counsel at the North American Electric Reliability Corp. in Washington, D.C. He had retired from Constellation Energy as its senior vice president and general counsel after its merger with Exelon Corp.

Scott A. Brandt B.S.E. '80 was named president and CEO of eQuorum Corp. in Atlanta. eQuorum is a global cloud-software company with solutions for document and enterprise content management.

David Dreifus J.D. '80 was elected into the Fellows of the American Bar Foundation. He focuses on disputes among owners of closely held businesses, minority shareholding disputes, securities and accounting issues, and the defense of class actions. He is a partner in the Raleigh office of Poyner Spruill.

William Vaughn McCall '80, M.D. '84 was named chairman of psychiatry at Georgia Health Sciences University. He previously served for 12 years as the chair of psychiatry at Wake Forest University.

Timothy D. Pyatt '81 was inducted as a fellow of the Society of American Archivists, the highest honor bestowed on individuals by the professional organization. For 25 years, he has held distinguished positions in both archives and rare book collections, including eight years at the Duke Libraries, and is head of the Eberly Family Special Collections Library at Pennsylvania State University.

Henry G. Brinton '82 published *The Welcoming Congregation: Roots and Fruits of Christian Hospitality*, which explores the biblical basis for Christian hospitality in congregations. Brinton is senior pastor of Fairfax Presbyterian Church in Fairfax, Va.

Kerry E. Hannon '82 published *AARP Great Jobs for Everyone 50+: Finding Work That Keeps You Happy and Healthy...and Pays the Bills*. She is a nationally recognized authority on career transitions and retirement and a contributor to *Forbes*, *U.S. News & World Report*, and *USA Today*.

Rita A. Sheffey Ph.D. '82 was named president-elect at The Lamar American Inn of Court



'84

Ben Fountain J.D. '84 is a 2012 National Book Award finalist for his novel *Billy Lynn's Long Halftime Walk*. He has won the PEN/Hemingway Award, an O. Henry Prize, and two Pushcart Prizes. His work has appeared in *Harper's*, *The Paris Review*, *New Stories From the South: The Year's Best*, and *The New York Times*.

for the Emory School of Law. She also was re-elected for a two-year term on the Metropolitan Bar Caucus executive committee. She focuses on environmental, patent and trademark infringement, and product liability litigation.

'83 *Our Dreamer* April 12-14, 2013

Christopher D. Howard '83 is the Pamela C. Harriman Professor of government and public policy at the College of William and Mary.

Clay S. Robinson '83 joined MassMutual Financial Group in Lexington, Ky. He is also the founder of Blue Devil Underground, an informal support group.

Jo Ellen Whitney '84, J.D. '88 received the AV Preeminent rating by LexisNexis Martindale-Hubbel. Whitney is a senior shareholder in the Des Moines, Iowa, office of Davis Brown and is chair of the firm's employment and labor-relations department.

SANTA HAS A DREAM: NEW BED!

And so can you.

The ultimate adjustable bed is **MADE IN VIRGINIA!** You choose from our exclusive headboards and premium mattresses to add to our custom built, strong aluminum frame. The whisper quiet motor is remote controlled. The comfort is your gift. Sizes: Twin, Full, Queen, Split Queen & King.

ASSURED COMFORT™

Call 866.852.2337 for a brochure and visit AssuredComfortBed.com.

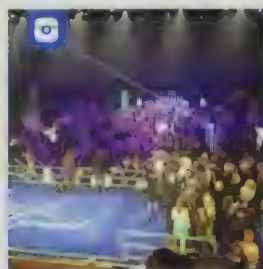
Available at
GREEN FRONT
Interiors & Rugs, LLC
2004 Yonkers Rd. / Raleigh
919.754.9754



dioptrica @dioptrica

Great night at the Duke/Forward Gala. Humbled to be amongst such amazing people. #dukeforward. #dumlcs <http://t.co/tKAGgyPZ>

via **Twitter**



charlesrobinson9 @CharlesRobinson9

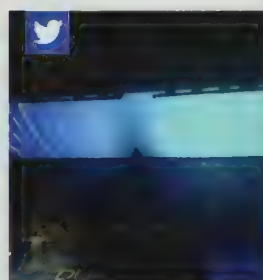
Instagram



Luke Maslow @luke_maslow

Duke moves Forward!!
#dukeforward
<http://t.co/roscow1gq>

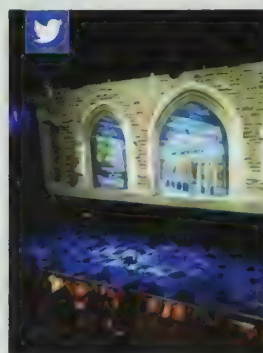
via **Twitter**



Ting-Ting Zhou @tingtingzhou

"We have already reached \$1.32 billion of our \$3.25 billion" - Brodhead #DukeForward #WOW <http://t.co/11PSY1W>

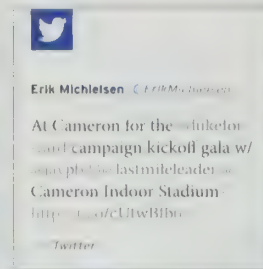
via **Twitter**



Chris Lam @GTHCDuke

Cameron Indoor Stadium transformed. #DukeForward launch gala #DukeForward <http://t.co/TvbtVvXy>

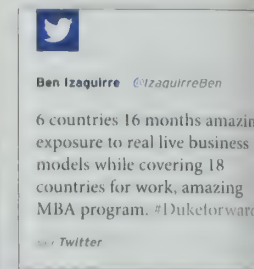
via **Twitter**



Erik Michelsen @ERIKMichelsen

At Cameron for the #dukeforward campaign kickoff gala w/ @camplcs last mile leader @CameronIndoorStadium <http://t.co/CLtweB1b>

via **Twitter**



Ben Izaquirre @IzaquirreBen

6 countries 16 months amazing exposure to real live business models while covering 18 countries for work, amazing MBA program. #Dukeforward

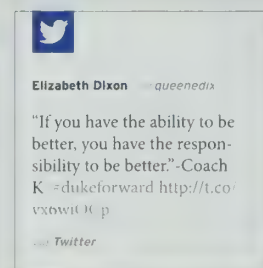
via **Twitter**



Patrick Oathout @patrickoathoutz

At the #DukeForward Gala. Duke students of the past and present working for the future. #GoDuke <http://t.co/k4e4aP8u>

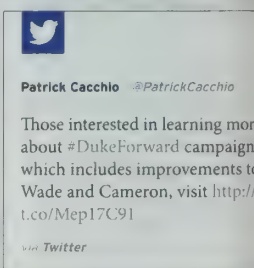
via **Twitter**



Elizabeth Dixon @queenexdix

"If you have the ability to be better, you have the responsibility to be better." - Coach K #dukeforward <http://t.co/vxw10Cp>

via **Twitter**



Patrick Cacchio @PatrickCacchio

Those interested in learning more about #DukeForward campaign which includes improvements to Wade and Cameron, visit <http://t.co/Mep17C91>

via **Twitter**



Ed Thomas @edthomas25

#dukeforward loving the launch party! A capella groups sound awesome in a transformed Cameron <http://t.co/dmFIBuNg>

via **Twitter**



ana homayoun @anahomayoun

How often do you get to do a strolling supper through Cameron Stadium?#duke-forward @DukeU (cc:@luke-maslow @queenedix)

via *Twitter*

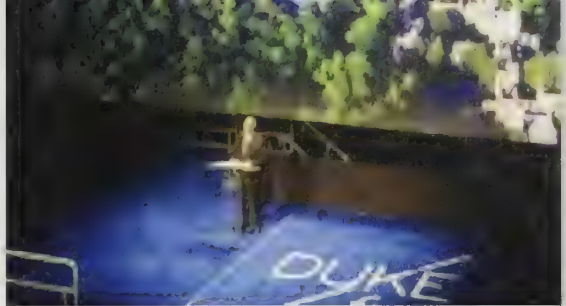


Julia Gaffield @JuliaGaffield

Coach K having a phone conversation with "Mr. Duke" - "we are as good as anyone else, but we're hungrier" #dukeforward <http://t.co/vx6wiOCp>

via *Twitter*

*Share
your stories
and photos*



Michelle Sohn @michelle_s33

So impressed and happy to be in Cameron Indoor celebrating #DukeForward

via *Twitter*

SEE FOR YOURSELF WHAT ALL THE BUZZ IS ABOUT.

On September 29, the Duke you've always loved took a bold leap forward. Be a part of it.

DUKE FORWARD: ON THE ROAD

SPRING 2013

Atlanta	February 2
Washington, D.C.	March 23
San Francisco	April 27
New York	May 17
London	June 22

TO COME: Before 2015, look for our events in Boston, Charlotte, Chicago, Los Angeles, Philadelphia, Dallas... and more.

DUKEFORWARD.DUKE.EDU

Learn more about regional events, discover ways to get involved, and explore how our \$3.25 billion campaign will enrich the Duke experience, activate our power for the world, and sustain our momentum.

CHANGEAGENT

Martha Franck Rollins '65, M.A.T. '68 and O. Randolph Rollins '65, J.D. '68

Heeding the Call to Action

It would have been easy for Martha and Randy Rollins to live rewarding lives within their comfort zones. But driven by their strong faith and a desire to help others, the couple have had an indelible impact on their Richmond, Virginia, community.



Chris Hildreth

As a young couple, the Rollinses were one of the first white families to move into Richmond's Carillon neighborhood in 1970—against their real estate agent's advice. They forged lasting friendships with their neighbors and helped establish the Carillon Civic Association. The Ford Foundation later called Carillon one of the most successfully integrated neighborhoods in the country.

For years, Martha ran a thriving antiques store in the trendy Carytown area of Richmond. She realized that the business could be used for greater good. In 2002, she started Boaz & Ruth, a faith-based nonprofit that provides job training and GED coaching to people recently released from prison, based in the Highland Park community. The program has grown in the past decade to include a home-repair service, a café and catering enterprise, and thrift stores

selling furniture and clothing. Crime in the area has dropped by 61 percent. In 2006, Martha was among the winners of the Purpose Prize, an award sponsored by Civic Ventures that recognizes Americans over the age of sixty who are addressing society's toughest challenges. In 2009, she was invited to the White House to represent Boaz & Ruth as one of 100 nonprofits recognized for approaching national problems in innovative ways.

Randy was a corporate lawyer with McGuireWoods. He had served as the Virginia's secretary of public safety, which included oversight of the Department of Corrections. He'd noticed that ex-prisoners who landed jobs were less likely to return to prison, but that many former convicts had lost their driver's licenses. In 2007, he started the nonprofit Drive-To-Work, to assist low-income and previously incarcerated people to restore their driving privileges so they could drive to work and keep a job. Drive-To-Work is the only organization of its type providing legal services to help individuals get their driving privileges back.

Martha, who is a cancer survivor, says she and Randy have felt blessed at every step of their journey. "Life is a gift," says Martha. "Every person, challenge, place, and event is an opportunity for learning and a call to action."

William W. Horton J.D. '85 was elected the 2012-13 Secretary of the American Bar Association health-law section, making him the first Alabama lawyer to serve as an officer of the section in its 17-year history.

Paul S. Quinn Jr. '85 was included in *The Best Lawyers in America 2013*. He specializes in the areas of real estate and commercial transactions in the Orlando, Fla., office of GrayRobinson.

Michael P. Scharf '85, J.D. '88 was appointed associate dean for global legal studies at Case Western Reserve University School of Law.

Erik Albright '87 was included in *The Best Lawyers in America 2013*. He specializes in commercial litigation and personal-injury litigation at Smith Moore Leatherwood in Greensboro.

'88 25th Reunion April 12-14, 2013

Nancy S. Freeman '88 received her LL.M. in taxation from the University of Alabama, summa cum laude, and as the class valedictorian. She is a shareholder at Winderweede, Haines, Ward and Woodman, and focuses on estates and trusts at the firm's office in Winter Park, Fla.

W. Kenneth Mask M.D. '88 developed and released "Tic Tac Mo!" an app for a three-player tic-tac-toe game on a wider, three-by-five board. Mask is a diagnostic radiologist in New Orleans.

Leslie A. McFarland Marx '89 received the Jerry S. Cohen Memorial Fund Writing Award. Her winning entry was an analysis of the circumstantial evidence of antitrust conspiracies. She is a professor of economics at Duke's Fuqua School of Business.

BIRTHS & ADOPTIONS

Declan John to **Hennessey Tseng** '88 and Monica Tseng on July 16, 2012.

1990s

Sherry E. Weaver Smith '90 published *Land Shapes*, a collection of haikus that reflect meditations in nature and are paired with Chinese brush paintings by Sylvia Van Strijthem. Her poetry was nominated for a Pushcart Prize in 2008.

Michael S. Popok '91 was reelected managing partner for the Miami office of Weiss Serota Helfman and elected to the firm's strategic development committee. He was recognized once again as a "Florida Best Lawyer" in municipal litigation and a *South Florida Business Journal* Leading Lawyer in business dispute litigation.

Stanley K. Ridgley A.M. '91, Ph.D. '99 published *The Complete Guide to Business School Presenting*. He is an assistant professor of management at Drexel University's LeBow College of Business.

Laura Deddish Burton '92 was named in *The Best Lawyers in America 2013*. She specializes in immigration law at Smith Moore Leatherwood in Greensboro.

Graham L. Hammill Ph.D. '92 published *Political Theology and Early Modernity*, which examines the role of 16th- and 17th-century literature and thought in modern conceptions of political theology. He also published *The Mosaic Constitution: Po-*

tical Theory and Imagination From Machiavelli to Milton.

Lisa K. Levitan McGann '92 is working with her husband to build up Wizbots, a company that provides unique, creative robotics programs for children ages eight to 14 in the San Francisco Bay area.

'93 20th Reunion April 12-14, 2013

Scott A. Schube '93 launched Happy Toy Machine, a website that allows children to create their own custom plush toys.

Geoffrey S. Smith '94 was named managing director at Hudson Realty Capital. He oversees the expansion of the firm's real-estate lending platform.

Katherine Blass Asaro '95 received a J.D. from UNC School of Law. She is now a staff lawyer at the North Carolina School Boards Association in Raleigh.

'98 15th Reunion April 12-14, 2013

Charles L. Nunn Ph.D. '99 published *The Comparative Approach in Evolutionary Anthropology and Biology*. He is an associate professor of human evolutionary biology at Harvard University.

MARRIAGES & COMMITMENTS

April L. Fields '93 to **Wendy S. Martin** B.S.N. '09 on June 18, 2011. Residence: Durham...**Cynthia G. Clopper** '99 to Brian

Call for Nominations for DAA Board

To nominate someone for the Duke Alumni Association's board of directors, go to www.board-om.dukealumni.com/about-daa/board-directors and complete the online form. Or you can send names and qualifications (no self-nominations, please) to Sterly Wilder '83, associate vice president, alumni affairs, Box 90572, Durham, N.C. 27708 or sterly.wilder@daa.duke.edu. The deadline is March 1.

C. Peeples on July 14, 2012. Residence: Columbus, Ohio...**Olivia J. Ellis** '99 to **Isham R. Randolph** '00 on April 7, 2012. Residence: Washington, D.C.

BIRTHS & ADOPTIONS

John Joseph to **Richard W. Garnett IV** '90 and Nicole S. Garnett on July 20, 2012...Erin Jane to **Gary R. Cohen** '92, J.D. '95 and **Jennifer Swanson Cohen** '95 on July 26, 2012...Everett Orion Hall to **Lisa L. Anderson-Hall** B.M.E. '95 and Justin Hall on Dec. 21, 2012...Freyja Compton to **Amanda Cromwell Hansford** '95 and Nicholas Hansford on April 13, 2012...Tyler Fox to **Wendy Marantz Levine** '95 and Eric T. Levine on May 29, 2012...Zachary Shepherd to **Alexander R. McKenzie** '95 and **Libbie Parker McKenzie** '95, M.D. '99 on May 30, 2012...Ryan Michael to **David M. Frankel** '97 and **Shannon Strickland Frankel** '00 on July 25, 2012...Jordan Grace Eiben to **Elizabeth J. Geller** '97 and George A. Eiben on May 8, 2012...Olivia Grace to **David Lamond** '97, J.D. '06 and **Kelsey Leigh Lamond** '06 on Aug. 4, 2012...Anneliese Bell to **Andrew M. Bell** '98, M.T.S. '08, A.M. '12 and **Elizabeth Jordan-Bell** '99 on

Dec. 30, 2011...James Beauregard to **Jeffrey D. Kessler** '98 and Kerry F. Kessler on Aug. 15, 2012...Evan Thomas to **Rebecca J. Teegarden Smith** '98 and Michael R. Smith on July 13, 2012...Maristella Electa to **Tara Allen Esteves** J.D. '99 and Joshua M. Esteves on Feb. 7, 2012...Maryanna Leigh to **Andrea Robinson Kells** '99 and **Richard W. Kells** '01 on Sept. 9, 2012...Samuel Brabston to **Elizabeth Alsbrooks Player** '99, J.D. '06 and Stokes Player on May 17, 2012...Matthew Stanley to **Christine Haughey Weinberger** '99 and Stan Weinberger on May 1, 2012.

2000s

Neilesh S. Ghodadra '01, M.D. '05 is an orthopaedic surgeon at the Southern California Orthopedic Institute, where he focuses on minimally invasive surgery of the knee, shoulder, elbow, and hip. He is also a medical consultant for the NFL Network.

Samir R. Mehta '01 is an associate at Armstrong Teasdale in St. Louis. A member of the in-

Building Champions

From the moment you walk onto campus at Duke University and gaze at the prestigious buildings and pristine scenery, you know you are among greatness. This greatness extends far from the accolades and achievements that our student-athletes produce year after year. It is something inside Duke student-athletes which separates them from everyone else. This is what makes Duke student-athletes the best in the nation. At Duke University, we don't just win. We Build Champions.

IRON DUKES
WWW.IRONDUKES.NET
(919) 613-7575

Call for Nominations for Board of Trustees

The Duke Alumni Association seeks your help in identifying alumni for nomination to the Board of Trustees of Duke University. This ongoing process relies on the suggestions from all segments of our broad and diverse alumni community. Nominations are reviewed by the Executive Committee of the Duke Alumni Association's board of directors, which then submits a list of candidates to the Trustee Committee on Trusteeship. For information or to submit names, please contact Sterly L. Wilder '83, associate vice president, alumni affairs, at trusteenominations@daa.duke.edu

intellectual-property group, he prepares and prosecutes U.S. and foreign patent applications in the area of high technology, specifically related to computer software and hardware.

Lauren C. Moore Kase '02 was appointed executive director of National Students of AME, a nonprofit organization that supports college students grieving the loss of a loved one.

Jose L. Piscoya '02 started a surgery residency at St. Elizabeth's Medical Center in Boston.

'03 Tenth Reunion April 12-14, 2013

Robert C. Blain '06 joined Gaffney Lewis & Edwards as an associate in the firm's Isle of Palms, S.C., office. His practice focuses on premises-liability defense, family law, and employment law.

Andrew T. Guidry '06 received his M.D. from the Marshall University Joan C. Edwards School of Medicine and began his residency in neurology at the Emory University School of Medicine.

Kyle S. Van Houtan Ph.D. '06 received the Presidential Early Career Award for scientists and

engineers for his research on the impact of ocean climates on sea turtles. He is a fisheries research ecologist for the National Oceanic and Atmospheric Administration.

Andy S.B. Yun '06 received a J.D. from Wake Forest University in May 2011. He joined Trachtman & Trachtman in Mission Viejo, Calif., as an associate.

Audra L. Eagle Yun '06 was named an archivist at the University of California-Irvine.

Dagan A. Loisel Ph.D. '07 joined the St. Michael's College faculty as an assistant professor of biology. His teaching areas include general biology, genetics, and evolutionary biology.

'08 50th Reunion April 12-14, 2013

Meagan E. Gray B.S.E. '08 graduated from the University of Louisville School of Medicine. She began her internal medicine residency at the Medical University of South Carolina.

Hilary H. Lenz '08 was appointed to the board of directors of Colorado Creative, a nonprofit that

engages Denver youth through art and leadership. She is the program director for A Little Help, a nonprofit that connects neighbors by fostering community and helping seniors remain in their homes. She also volunteers on the resource development committee of Women's Global Empowerment Fund, which offers microfinance loans and education programs to women in northern Uganda.

MARRIAGES & COMMITMENTS

Michael T. Bestawros '00 to Stephanie Plowden on Aug. 8, 2012. Residence: Nashville, Tenn.... **Isham R. Randolph** '00 to **Olivia J. Ellis** '99 on April 7, 2012. Residence: Washington, D.C.... **Christopher F. Bennett** '01 to Sinead Murphy on March 10, 2012. Residence: New York.... **Nidhi Pardue** M.B.A. '02 to Jamie McVicar on Jan. 1, 2011. Residence: Jupiter, Fla.... **Carla R. Brackman** '03 to Jonathan J. Rogers on June 29, 2012. Residence: Smyrna, Ga.... **Nicholas J. Superina** '03 to Christina E. Doukeris on July 21, 2012. Residence: Arlington, Va.... **Katherine D. Rutledge** '04 to Thomas K. Nelson Jr. on May 5, 2012. Residence: Birmingham, Ala.... **Lauren P. Garson** '07 to **Robert M. Sanders** '07 on June 30, 2012. Residence: Washington, D.C.... **Jordan M. Komisarow** '07, M.D. '12 to **Sarah A. Gordon** '08 on Sept. 2, 2012. Residence: Durham.... **Tasha S. Boller-slev** '08 to Ryan Gonska on June 30, 2012. Residence: New York.... **Wendy S. Martin** B.S.N. '09 to **April L. Fields** '93 on June 18, 2011. Residence: Durham.

BIRTHS & ADOPTIONS

Ryan Michael to **Shannon Strickland**

What do you want to learn next?

Duke will always be your school, your trusted resource.
Explore all the ways to engage your mind at Duke -
online, on campus, and where you live.

dukealumni.com/forever-learning

Forever Learning. Forever Duke.

Duke
ALUMNI ASSOCIATION

REGIONAL

36

Alumni Travel Programs in 2013

35

Regional Forever Learning Events

ON CAMPUS

600+

Lectures, Talks, Panels, Seminars

325+

Continuing Studies Programs

ONLINE

2000+

Educational Videos on Duke on Demand

9

Open Courses with Coursera

Numbers correspond to programs and courses offered as of September 2012. Subject to change by publication date.

Travel *with* Duke

Your friends. Your faculty. Your dream destinations.



Where do you want to go in 2013?

www.dukealumnitravel.com

Duke

ALUMNI ASSOCIATION

Black Sea Odyssey: July 15-29



Paris & the Villages and Vineyards of France: October 8-20

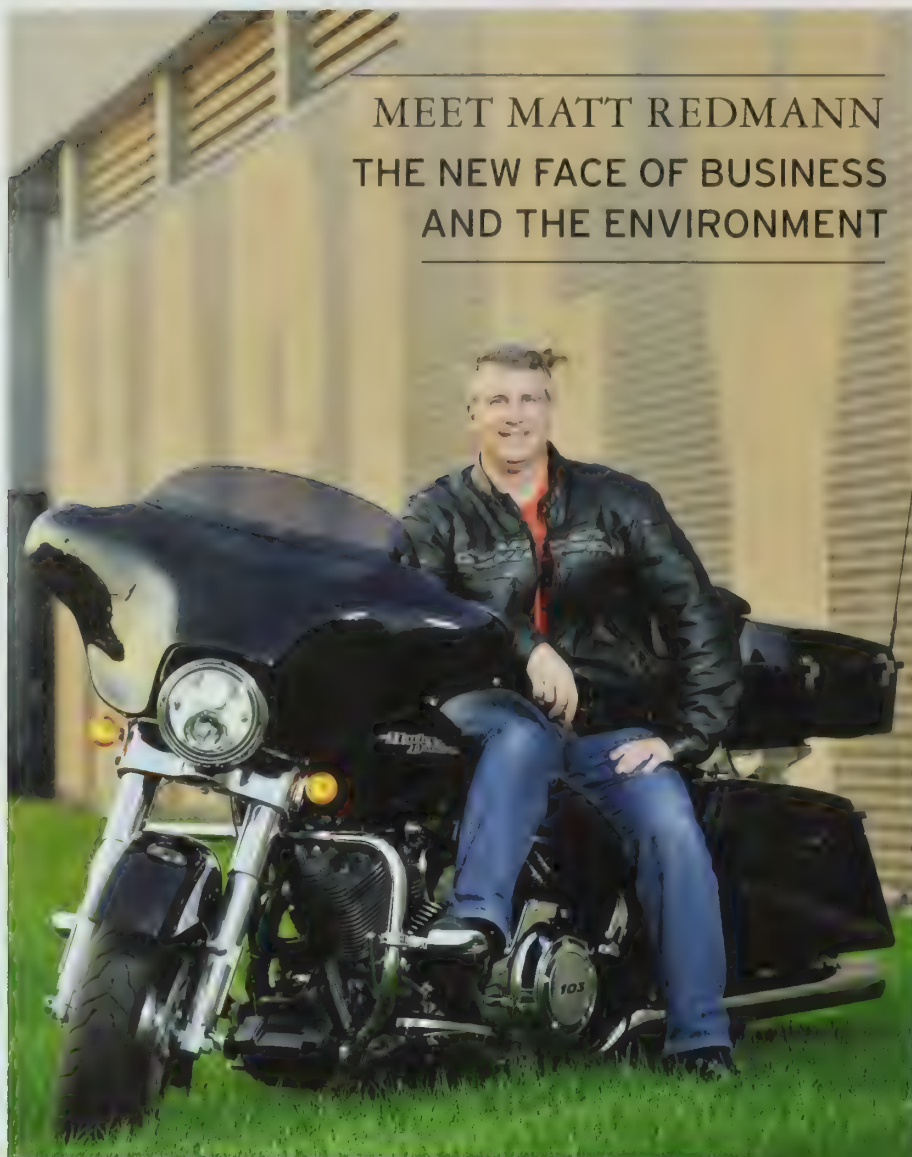


China Family: June 26 - July 7



Exploring Alaska's Coastal Wilderness: June 1-9

MEET MATT REDMANN THE NEW FACE OF BUSINESS AND THE ENVIRONMENT



A lifelong motorcycle enthusiast and outdoorsman, Matt Redmann has his dream job: environmental manager at **HARLEY-DAVIDSON** Motor Company's powertrain operations. "I wanted to take my passion for environmental management and apply it to a brand I really admire."

To improve his scientific knowledge and leadership skills, he chose the online master's degree from **THE NICHOLAS SCHOOL OF THE ENVIRONMENT AT DUKE**.

Duke 
NICHOLAS SCHOOL OF THE
ENVIRONMENT

forging a sustainable future

FIND OUT MORE



[nicholas.duke.edu/
alumni/redmann](http://nicholas.duke.edu/alumni/redmann)

© Peggy Morsch Photo

Frankel '00 and **David M. Frankel '97** on July 25, 2012...**Maxwell James Birenbaum** to **Paola Gomez-Birenbaum '00** and Steven Birenbaum on Sept. 25, 2011...**Finnley Lyle** to **Lars E. Johnson '01** and Shannon P. Johnson on July 17, 2012...**Maryanna Leigh** to **Richard W. Kells '01** and **Andrea Robinson Kells '99** on Sept. 9, 2012...**Hannah Koh Randall** to **Jennifer Koh B.S.E. '01** and **J. Michael Randall '01** on July 21, 2012...**Lydia Caroline** to **Jared M. Lina '01** and **Pamela Keeney Lina '01** on April 1, 2012...**Logan Matthew** to **Kristen Stenvall Shejen '01** and Matthew Shejen on Sept. 1, 2012...**Julian Theodore** to **Candice S. Weissinger '01** and **Michael E. Weissinger B.S.E. '01, M.B.A. '09** on Sept. 16, 2012...**Xavier James** to **Dorian J. Bolden '02** and **Taineisha Celle Bolden '04** on July 31, 2012...**Elise Anna Ben-Akiva** to **Jessica B. Dickinson '02** and Ori Ben-Akiva on March 25, 2012...**Laura Rose** to **Heather Lee Fisher M.E.M. '02** and Benjamin C. Fisher on Aug. 5, 2012...**Louis Anthony Tramontozzi IV** to **Louis A. Tramontozzi III '02** and **Meghan Donlevy Tramontozzi '02** on Aug. 3, 2012...**Isaac Xavier** to **Sharon Hodde Miller '03, M.Div. '07** and **Isaac F. Miller M.Div. '10** on Aug. 28, 2012...**Theo Welsh Cherem** to **Lara C. Cherem M.B.A. '04** and **Martin Welsh M.B.A. '04** on July 21, 2012...**Clara Whitney** to **William Sanford M.H.S. '05** and **Kathleen Stewart Sanford D.P.T. '08** on Aug. 6, 2012...**Olivia Grace** to **Kelsey Leigh Lamond '06** and **David Lamond '97, J.D. '06** on Aug. 4, 2012...**Owen Alexander Pearce** to **Timothy Vann Pearce Jr. J.D. '06** and Emily L. Rogers on Aug. 16, 2011...**Alandis Kyle Brassel Jr.** to **Thallen J. Brassel J.D. '09** and Alandis Brassel on Aug. 2, 2012...**Carter Christopher** to **Jessica Marchant Hartzog '09** and Christopher Hartzog on Oct. 12, 2011.

2010s

Nicole M. Carlozo M.E.M. '12 began the Coastal Management Fellowship Program, sponsored by the National Oceanic and Atmospheric Administration. Working with the Maryland Chesapeake and Coastal Program, she seeks to integrate water quality and coastal resources into a marine spatial plan to target restoration and conservation activities.

MARRIAGES & COMMITMENTS

John-Peter G. Dolphin '10 to **Rachel G. Silverman '10** on July 21, 2012. Residence: New York...**Edward L. Holt '10** to **Lindsey P. Wallace '10** on June 30, 2012. Residence: Chesterfield, Mo.

BIRTHS & ADOPTIONS

Isaac Xavier to **Isaac F. Miller M.Div. '10** and **Sharon Hodde Miller '03, M.Div. '07** on Aug. 28, 2012.

IN MEMORIAM

Edith Miller Howard '34 of Perry, Ohio, on Jan. 8, 2012. She was a teacher in the Mentor, Ohio, public school system and at Lake Catholic High School. She is survived by a son, a daughter, six grandchildren, and eight great-grandchildren.

Horwood P. Myers Jr. '38 of Asheville, N.C., on June 19, 2011. He was a minister in both the Virginia and Western North Carolina conferences

of the United Methodist Church. In 1992, he was named pastor emeritus by the First United Methodist Church in Waynesville, N.C. At the time of his death, he was the longest serving member (69 years) in the Western North Carolina conference. He is survived by his wife, June; three sons; a brother; five grandchildren; and nine great-grandchildren.

Betty C. Gray Summey '38 of Gastonia, N.C., on May 4, 2012. She worked for Southern Combed Yarn Spinners Association from 1938 until 1942. She is survived by two sons, a sister, and two grandsons.

Donald H. White '38 of Sun City Center, Fla., on Jan. 12, 2012.

Frank C. Bone '40, M.D. '43 of Orlando, Fla., on July 25, 2012. He spent his medical career in the Orlando Regional Healthcare System, where he served in various capacities, including chief of medicine, chief of gastroenterology, and president of the medical staff. He was a founding member and past president of the Florida Gastroenterology Society and a clinical assistant professor of medicine at the University of Florida. The American College of Physicians awarded him a community-based teaching award in 1977. He is survived by his wife, **Margaret Lowrance Bone** '47; two sons; and three grandchildren.

Helen K. Coolidge '40 of Round Pond, Maine, on June 30, 2012. She was involved with the Manhattan Project, the U.S.'s World War II program that yielded the first atomic bomb. Sur-

vivors include two sons, a grandson, and a nephew, **Arthur W. Knight Jr.** '69.

James Beebe Jr. '41 of Rehoboth Beach, Del., on June 8, 2012. In 1944, he earned his medical degree from Jefferson Medical College, where he also was enrolled in the Army student training program. He spent his career at Beebe Medical Center, serving as chief of surgery and chief of staff until his retirement in 1993. He was also chairman of the center's board of directors. An active leader in the community, he was past president of both the Lewes-Rehoboth Rotary Club and the board of education for the Lewes Special School District. He is survived by his wife, Betty; two sons; a daughter; two stepsons; seven grandchildren; and six great-grandchildren.

Edward M. Brown III '41 of Atlanta, on May 23, 2012. While working as associate secretary of the Student Christian Association at the University of Texas-Austin, he organized integrated bus rides—preceding the Montgomery bus boycott by nearly 10 years. After serving as the youth minister of the Evangelical Lutheran Church in France, he returned to the southern U.S. and assisted with voter registration and other civil rights efforts. In 1959, he became the Southern race relations coordinator for the United Church of Christ, where he organized activities between white and African-American congregations. He is survived by his wife, Joyce; two sons; a daughter; four grandchildren; and four great-grandchildren.

Margaret Milton Gates R.N. '41 of Stuart, Fla., on Jan. 3, 2001.

Elvin Elizabeth Holder Little '41 of Chapel Hill, on June 3, 2012. She taught in Greensboro schools for 25 years and was a member of the Greensboro Symphony Guild. She is survived by four children, including **Prescott M. Little Jr.** '68, M.B.A. '72 and **Elizabeth J. Little Stevens** M.B.A. '79; 10 grandchildren, including **Brandon H. Little** '03, M.E.M. '10; two great-grandchildren; and a son-in-law, **Robert J. Stevens** A.M. '78.

June G. Burks Reeves '41 of Charlotte, on May 14, 2012. She was active in the Junior League of Charlotte and Girl Scouts of America. She is survived by two daughters, a son, and two grandsons.

Robert P. Barnett '42, J.D. '48 of Rehoboth, Del., on June 13, 2012. A three-year letterman and All-American center on Duke's football team, he led the Blue Devils to a pair of Southern Conference championships and was team captain his senior year. Following his military service during World War II, he returned to Duke and earned a law degree. He subsequently became president and CEO of ICI Americas (now AstraZeneca), a pharmaceutical company. In 1982, he joined the law firm of Potter Anderson & Corroon in Wilmington, Del. He is survived by three sons, a sister, and eight grandchildren.

Mary Jane Edwards Klopp '42 of Waynesville, N.C., on May 9, 2012. She was a teacher in school districts in both North Carolina and Ohio. She is survived by her husband, John; two daughters; a son; six grandchildren; and two great-grandchildren.

A Tradition of Excellence

We are your place for officially licensed
Duke merchandise.

With thousands of products to choose from,
we offer the largest selection of everything Duke.
Shop with us 24/7 via our online catalog and
place your order securely anytime, day or night.

Browse our online catalog @
www.shopdukestores.duke.edu

016 West Union Building | Box 90850
Durham, NC 27708-0850

One Team. One Common Goal.
To Provide Quality Service & Products to the Duke University Community.



Robert T. Scott '12 of Richmond, Va., on June 1, 2012. During World War II, he served in the Marines as a naval aviator. He then spent his career with the Virginia Paper Co., retiring as president. He was also a board member of the Virginia Trust Co. and the Children's Hospital Foundation. He is survived by his wife, **Sarah C. Dabney Scott** '42; a son; two daughters; four grandchildren; and three great-grandchildren.

James L. Hayes Jr. '13 of Marietta, N.C., on May 20, 2012. He was a World War II veteran. He is survived by his wife, Robby; two sons; a sister; seven grandchildren; and six great-grandchildren.

Kermit R. Lindeberg B.S.M.E. '43 of Pleasant Hills, Pa., on May 5, 2012. He was a lieutenant in the Navy during World War II. He then worked for Alcoa, an aluminum producer, for the next 32 years. He is survived by his wife, Elizabeth; a son; two daughters; eight grandchildren; and six great-grandchildren.

Phyllis A. Gordon Maines '43 of Ithaca, N.Y., on June 14, 2011. She was the business manager for the medical practice of her late husband, John. In 1974, she helped found Lansing, N.Y., and served as vice mayor of the village. She is survived by six children.

Richard E. Nelson Sr. B.S.E.E. '43 of Niles, Mich., on March 22, 2012. He is survived by his wife, Hazel Marie; three daughters; a son; a sister; seven grandchildren; and two great-grandchildren.

L. Karl Seman '43 of West Palm Beach, Fla., on Jan. 11, 2012. Survivors include his wife, Marion; and two children.

Edward S. Bott '44 of Belleville, Ill., on May 30, 2012. During World War II, he was a military intelligence officer in the Army Air Corps. He served in India, China, and Japan, and received five Bronze Stars. He became vice president of the family business, Corn Belt Laboratories. He then transitioned to investment banking, working for Newhard Cook in Belleville and later as president of Mark Twain Bank. He also served as chair of the board of trustees of McKendree College (now McKendree University), president of the board of directors at Memorial Hospital in Belleville, and chairman of the Illinois division of the United Way. He is survived by his wife, **Margaret J. Wiley Bott** '48; two daughters; a son, **Edward S. Bott Jr.** '77; a brother; two sisters; nine grandchildren; and seven great-grandchildren.

M. Bernice Cobb Jones R.N. '44, B.S.N. '44 of Winston-Salem, on April 30, 2012. After receiving her two nursing degrees, she worked as head nurse of the urology department at Duke Hospital. She is survived by her husband, Joseph; a daughter; a son; and two grandsons.

Catherine Barrow Kessberger '45 of St. Joseph, Mo., on June 12, 2012. She worked for a number of companies, including Guarantee Title Bank, American Express, and Bell Telephone. She was a member of the Junior League and the Runcie Club and served as president of the Women of

Christ Church. She is survived by a son and a daughter.

Sara K. Magill Tyler '45 of Chester, S.C., on May 4, 2012. She worked for Chester County Regional Hospital as a physical therapist. She is survived by a daughter, two sons, a stepdaughter, nine grandchildren, and eight great-grandchildren.

Leighton E. Harrell Jr. B.D. '46 of Roanoke, Va., on June 14, 2011. An Army chaplain during the Korean War, he was also a minister in the Virginia conference of the United Methodist Church. Additionally, he taught at several universities, worked for the Veterans Administration, performed marriage and family counseling, and started a finance company. He is survived by two daughters and two brothers.

Sydney R. Nelson Leonard P.T. Cert. '46 of Sumter, S.C., on Aug. 16, 2011. She is survived by a daughter, a brother, three grandchildren, and five great-grandchildren.

Frances Bradsher Busby R.N. '47, B.S.N. '47 of Fort Lauderdale, Fla., on Aug. 10, 2012. She was a pediatric nurse. She is survived by three sons, a daughter, 10 grandchildren, and two great-grandsons.

Thomas G. Grant Jr. '47 of Tulsa, Okla., on May 19, 2012. After attending Duke through the Navy V-12 program, he completed law school and joined his father's commercial real estate firm, T.G. Grant Co. In 1963, he founded his own realty company, and for the next four decades he brokered property sales. He also assisted in the development of educational courses for the National Association of Realtors and was elected president of the organization in 1978. He is survived by his wife, Kathryn; four sons; three daughters; 16 grandchildren; a brother; and two great-grandchildren.

Nora Levitas Howell A.M. '47 of Chelsea, Mich., on May 16, 2012. After completing graduate studies in biochemistry, she taught biology for almost 40 years at Mississippi State College for Women (now Mississippi University for Women). She is survived by two sons, a daughter, a brother, and five grandchildren.

Hilda Y. Talton Ramsay '47 of Sherman, Texas, on June 15, 2011. She taught English at Sherman High School until her retirement in 1982. In addition, she served as the associate state administrator for the Texas office of the AARP and as a multiple-term member of the Texas Silver-Haired Legislature. She is survived by two sons, two grandsons, four step-grandchildren, and many great-grandchildren.

Jack L. Teasley M.D. '47 of Williamsburg, Va., on May 26, 2012. During the Korean War, he served in the Navy Medical Corps aboard the USS *Consolation* and at the naval hospital in Yokosuka, Japan. He spent the remainder of his medical career training other surgeons to perform hand surgery. He is survived by two sons, including **David G. Teasley** M.D. '79; a daughter; eight grandchildren; seven great-grandchildren; and a cousin, **William A. Teasley** '56.

Wilbur Devendorf Jr. '48 of Salisbury, N.C., on July 20, 2012. He served in the Army during World War II, the Korean War, and the Vietnam



Durham's Favorite Destination

Washington Duke Inn & Golf Club

3001 CAMERON BOULEVARD, DURHAM, NC 27705
800.443.3853 919.490.0999 WASHINGTONDUKEINN.COM

Follow us on Facebook and Twitter

SOMETIMES YOUR DREAM HOME REALLY ISN'T A HOUSE



In the heart of Chapel Hill, at the corner of Church and Franklin, we are setting a new residential standard. 140 West Franklin is the only residential building within easy walking distance of the best that Chapel Hill has to offer and 140 West Franklin will feature its own alluring array of ground floor shopping, subterranean parking, specially commissioned outdoor sculpture and a curated art collection inside the building. Fitness facilities, a roof-top club room and concierge service are also included.

Limited Editions Don't Last Long
Sales Center Open Daily
Occupancy starting in early 2013



888.310.1409 | 919.942.3381 140westfranklin.com



Obtain the Property Report required by Federal law and read it before signing anything. No Federal agency has judged the merits or value, if any on this property. Ram Realty Services

War. He is survived by a son, four daughters, a sister, eight grandchildren, and 12 great-grandchildren.

Natalie B. Smith Holley A.M. '48 of Tampa, Fla., on May 23, 2012. She worked for the State Department for five years in Bonn, Germany, before moving to Florida and working in the office of her husband at the time, a state Representative. She later worked in the Tampa office of the Social Security Administration. She took university classes well into her '70s. Survivors include a son and a step-daughter.

Edward B. Jones '48 of Savannah, Ga., on June 2, 2012. During World War II, he was a pilot training instructor for aviation cadets in the Army Air Corps. He later served in the Air Force in the Korean War, piloting a B-26 bomber on 32 missions. After his wartime service, he worked in hospital administration, during which he was director of Greenwich Hospital in Connecticut for 10 years. He was also an assistant professor for health professions at the University of Pittsburgh's Graduate School for Public Health. He is survived by his wife, Constance; a son; three daughters; nine grandchildren; and nine great-grandchildren.

Warren J. Twiddy '48 of Edenton, N.C., on June 9, 2012. He served in the Coast Guard during World War II. He later managed a family-owned insurance and real estate business, and a construction company. He is survived by his wife, Alice; two daughters; three grandchildren; and two great-grandchildren.

Kenneth E. Fulp Sr. '49 of Norfolk, Va., on Dec. 11, 2011. He served in the Army during

World War II as a medical corpsman and was stationed throughout North Africa, Sicily, and Italy. He was awarded a citation for his participation in the 1944 Battle of Anzio. He later served in various capacities in the Virginia public school system, including as a principal and district superintendent. A Fulbright scholar, he studied education systems in Finland and France. He is survived by his wife, Barbara; two sons; a daughter; four stepchildren; three grandchildren; and two great-grandchildren.

William B. Jennings Jr. '49 of Fayetteville, N.C., on April 28, 2012. Survivors include a sister.

Harriett Elizabeth "Lib" Morrison '49, P.T. Cert. '50 of Mocksville, N.C., on July 16, 2010. She was a retired physical therapist. Survivors include a cousin.

Silas Williams Jr. J.D. '49 of Chattanooga, Tenn., on Dec. 10, 2011. He graduated valedictorian from his high school and served in the Army during World War II. After law school, he joined the Chattanooga firm of Spears, Moore, Rebman & Williams, where he remained until his retirement. He also served as chancellor of the Episcopal Diocese of East Tennessee. He is survived by three sons, a daughter, a brother, eight grandchildren, and eight great-grandchildren.

Robert L. Barnes '50, M.F. '51, Ph.D. '58 of Langley, Wash., on Feb. 16, 2012. Survivors include a son.

F. Herbert Bormann A.M. '50, Ph.D. '52 of North Branford, Conn., on June 7, 2012. A pioneer in the field of forest ecology, he and his team

were among the first to discover and document the harmful effects of acid rain. His fieldwork in New Hampshire's White Mountains and later across the U.S. was taken into consideration when Congress regulated acid rain through the Clean Air Act of 1990. In 1993, he and a fellow ecologist, Gene Likens, were awarded the Tyler Prize for Environmental Achievement. In addition to serving in the Navy as a welder early on, he was a professor, teaching at both Emory University and Dartmouth College, and later as the Oastler Professor of forest ecology at Yale. He retired from that post in 1992 and shifted his attention to the subject of American lawns. In his 1993 book called *Redesigning the American Lawn*, he argued that the compulsive maintenance of these landscapes was a significant cause of environmental degradation. He is survived by his wife, **Mary Christine Williamson** '52; two daughters, including **Rebecca Ellen Bormann** '75; two sons; and six grandchildren.

Thomas T. Lively Jr. '50 of Brunswick, Ga., on July 26, 2011. He was a letterman on Duke's basketball team. He spent his professional career in the automobile industry, including as manager of Coastal Chevrolet Corp. He was a member of the Glynn County Board of Education for 10 years. Survivors include his daughter and a grandson.

Lawrence C. Matton Jr. '50 of High Point, N.C., on Oct. 23, 2011. He was a Navy veteran and a member of the United Methodist Church. He worked at High Point Paper Box, Ohio Art, and Trinity Fiber & Foam. He is survived by his wife, Ethel; a daughter; and two grandchildren.

Joseph N. Tenhet Jr. LL.B. '50 of Raleigh, on May 21, 2012. He served in the Army during World War II in the European theater, obtaining the rank of captain. He returned to active duty in 1953 as a first lieutenant in the Judge Advocate General Corps. A decade later, he reported to Korea for a tour of duty as chief of military justice in the Eighth Army. After briefly resuming his career in the Office of the Judge Advocate General, he was called to military service in Vietnam. In 1975, he was promoted to brigadier general. He completed his career as assistant judge advocate general for military law, retiring in 1978. He is survived by his wife, Sally; a daughter; a son; two grandchildren; and two great-grandchildren.

Betty Miller Unterberger Ph.D. '50 of College Station, Texas, on May 15, 2012. She was the first female tenured professor at Texas A&M University, where she taught history for nearly 40 years. In 1986, she also became the first female president of the Society for Historians in American Foreign Relations. She nominated the prominent Hinduism reformer Pandurang Shastri Athavale for the Templeton Prize for Progress in Religion, which he was awarded in 1997. She is survived by her husband, **Robert R. Unterberger** Ph.D. '50; a daughter; a son; two brothers; two grandchildren; and three great-grandchildren.

Jean L. Derby Lichtler '51 of Orlando, Fla., on May 2, 2012. A lifelong lover of horticulture, she volunteered at the Harry P. Leu Gardens in Orlando. She is survived by her husband, William; two sons, including **Alexander C. Lichtler** '74; three daughters; a nephew, **Andre P. Mazzoleni** B.S.E. '83; and her nephew's wife, **Katherine Kuffler Mazzoleni** '83.



MEMORIAL GARDEN • SARAH F. DUKE GARDENS

IMAGINE ... a garden of serenity, with exquisite plantings and shaded benches where family and friends can gather and reflect, in the heart of Duke Gardens.

Stones line the winding paths, engraved with the names and stories of those whose ashes are buried here.

A charitable contribution to the Gardens endowment is required, which may be part of estate plans.

For information, please contact:

Memorial Garden
Duke University, Box 90341
Durham, NC 27708
919-668-3604
bill.lefevre@duke.edu
gardens.duke.edu

Barbara W. May McNeely '51 of Burlington, N.C., on May 22, 2012. She taught English at Fairfax Hall Junior College in Waynesboro, Va. She was made an honorary life member of First Presbyterian Church in Burlington, where she served as historian and past president of women of the church. She is survived by two daughters; two sons; two sisters, including **Louisa May Pease** '52; a brother; four grandchildren; one great-granddaughter; and a nephew, **David Harlow Pease IV** '12.

William A. Swain III '51 of Oneonta, N.Y., on May 28, 2012. He served in the Navy as a fighter pilot, obtaining the rank of lieutenant junior grade. After teaching in England on a Fulbright, he returned to New York and became the principal at two area schools. He later taught at the State University of New York-Geneseo and was a supervisor of student teachers at SUNY-Oneonta. He also spent two years working in Tanzania as part of the USAID program Teachers for East Africa. He is survived by his wife, Molly; three sons; two brothers, **David L. Swain** '48, M.Div. '51 and **Joe O. Swain** '53; a sister; six grandchildren; a sister-in-law, **Barbara Harper Swain R.N.** '53; and a niece, **Dinah Swain Schuster** '86.

Donna J. Perkins Wells '51 of Kansas City, Mo., on May 29, 2012. She worked on the Marshall Plan in Washington, D.C. In 1967, she was named national runner-up Homemaker of the Year by *Family Circle*. She is survived by three sons, two stepchildren, and two brothers, including **Robert E. Perkins** '54.

Homer W. Wile '51 of Fort Worth, Texas, on March 15, 2012. He was a lieutenant in the Navy during the Korean War on an underwater demolition team. After completing his military service in 1954, he attended law school at Southern Methodist University, graduating second in his class. He subsequently worked in the legal department of American Airlines until his retirement in 1984. Survivors include two daughters, two sons, seven grandchildren, and two great-grandchildren.

Evelyn C. Poole Gorham '52 of Springfield, Va., on April 24, 2012. She is survived by a son, two daughters, five grandchildren, and a niece, **Mary Lorraine Guthrie** '76.

Elisha Carter Harris Jr. '52, LL.B. '56 of Durham, on May 6, 2012. He served in the Army in England before obtaining two degrees from Duke. He later managed his own private law practice in Durham. He is survived by a daughter, two sisters, and a grandson.

Theodore C. Kennedy B.S.C.E. '52 of Birmingham, Ala., on May 8, 2012. He began his career in construction working for Rust Engineering Co. He resigned in 1972 as vice president of operations to cofound BE&K Inc., one of the nation's largest privately owned construction and engineering firms until its sale in 2008 to KBR Inc. For his leadership at BE&K, he was named one of the top 125 industry leaders of the last 125 years by *Engineering News-Record*. Among his many civic leadership roles, he served as chairman of the Construction Industry Institute, headquartered at the University of Texas-Austin, and received Duke's Distinguished Alumnus Award. A professorship at the Pratt School of Engineering was established in his name in 2005. He is survived by two sons, four daughters, and four grandchildren.

James C. Kirby Jr. '52 of White Stone, Va., on May 15, 2012. After completing a two-year program with the U.S. Public Health Service and a fellowship in hematology at the George Washington University Cancer Center, he began his medical career as chief of medicine at N.J. State Hospital. He then moved to Monmouth Medical Center in Philadelphia, where he served as director of the internship and residency program and later as chairman of the department of medicine. He also spent a year in Saudi Arabia working at the King Khalid Military City Hospital. He served as medical director of several New Jersey clinics until his retirement in 1996. He is survived by his wife, Carol; two daughters, including **Elizabeth Kirby McMahon** '79; a son, **Bradford J. Kirby** '89; a son-in-law, **James D. McMahon** '79; a sister; and six grandchildren, including **Erin L. McMahon** '06 and **James K. McMahon** '11.

Anne L. Barnhardt Mincey '52 of Durham, on May 29, 2012. She worked at Duke as a housing manager. She is survived by two daughters, a son, three grandchildren, and two great-grandchildren.

Clarence O. "Frog" Yeates '52 of Wilmington, N.C., on May 27, 2012. After serving in the Army in Korea, he worked for General Electric for 32 years, retiring as treasurer and manager of finance at GE Broadcasting Co. He later owned and operated Happy Wheels, a carwash business in Wilmington. He is survived by his wife, Irene; two sons; a daughter; a brother; four granddaughters; a brother-in-law; and a sister-in-law.

Paul A. "PG" Gwynn '53 of California, Md., on Feb. 10, 2012. He worked as manager and owner of Clinton Motor Co., a Ford dealership established by his father. Survivors include six sons, three daughters, a brother, and a sister.

Bobby E. Howe '53 of Hendersonville, Tenn., on Feb. 25, 2011. He served in the Navy and worked in management at Sears. He is survived by his wife, Nancy; two daughters; a sister; and four grandchildren.

George D. Wilbanks '53, M.D. '56 of Durham, on June 3, 2012. Following his medical training, he served at Tinker Air Force Base in Oklahoma City. In 1965, he became an assistant professor at Duke Medical School, where he established its gynecologic pathology program. He then became a professor of obstetrics and gynecology at Rush Medical Center in Chicago. In 1982, he founded the second in vitro fertilization program in the U.S. His extensive research of cervical cancer contributed to the development of the HPV vaccine Gardasil. Among his many leadership roles, he served as past president of the American College of Obstetricians and Gynecologists and as regent of the American College of Surgeons. He is survived by his wife, **Evelyn Rivers Wilbanks A.M.** '56; two sons, including **Wayne F. Wilbanks** '82; and four grandchildren.

William O. Jones '54 of Cary, N.C., on May 21, 2012. He founded Cary Pediatrics Center in 1974 and later became chair of the department of pediatrics at WakeMed. Most recently, he was a professor of pediatrics at the UNC-CH's School of Medicine. He also volunteered as team physician at Cary High School and was elected to the school's Sports Hall of Fame in 2000. He is survived by his wife, **Frances Dixon Jones** R.N. '55; two sons; three daughters; and 11 grandchildren.

Barbara A. Reed Sarra '54 of New Castle, Del., on Jan. 24, 2011. She worked as a receptionist at the *Today Show* in its earliest years. After receiving her degree in elementary education, she taught at a number of public schools in Delaware. She is survived by a daughter, a sister, and a granddaughter.

Emil P. "Steve" Ericksen '55 of Boulder, Colo., on Nov. 5, 2011. He served in the Foreign Service as a diplomat at consulates in Mexico, Spain, Nepal, and Canada. His last post was as consul general in Naples, Italy. He was also a diplomat-in-residence at Princeton University's Woodrow Wilson School of Public and International Affairs. He is survived by his wife, Wanda; a son; three daughters, including **Erika Lee Ericksen** '86; and nine grandchildren.

Edwin A. Haddad II '55 of Medina, Ohio, on April 26, 2012. He owned and operated Copper-top Golf Course in Valley City, Ohio. He is survived by his wife, Marcia; two sons; a brother; a sister; and six grandchildren.

Ben E. Burgess '56 of Brevard, N.C., on July 14, 2012. After graduating from Duke and serving in the Army during the Korean War, he started a career at First Citizens Bank. He retired as senior vice president of the bank after 30 years. He is survived by his wife, Rebecca; a son; a sister; and three grandchildren.

Anne Elizabeth Sagberg HS '56 of Asheville, N.C., on June 2, 2012. After studying psychiatry at Duke, she worked at Highland Hospital in Asheville, where she remained until her retirement. Survivors include a great-niece.

Noel A. Schweig M.D. '56 of Nellysford, Va., on June 1, 2012. After spending two years as a fellow at the National Institute of Mental Health, he started a private psychiatry practice, which he managed for more than 50 years. He was also a faculty member at the Washington Psychoanalytic Institute and an associate professor of psychiatry at the George Washington University School of Medicine and Health Sciences. He is survived by his wife, Lois; a son; a daughter; six stepchildren; 11 grandchildren; and three great-grandchildren.

Daniel S. Grubb M.A.T. '57 of New Era, Mich., on Feb. 16, 2012. He served in the Army from 1954 to 1956. After Duke, he taught English at several high schools in Michigan. He became a professor of English at Indiana University of Pennsylvania, where he stayed until his retirement in 1995. He was also an ordained Episcopal priest. He is survived by his wife, Rosemary; a son; a sister; and four grandchildren.

Dianne L. Rodgers Stephenson '57 of Weston, Conn., on April 6, 2012. She taught elementary classes while traveling frequently with her husband during his military career. She is survived by her husband, Richard; two sons; and six grandchildren.

Mary Sallie Barnes P.T. Cert. '58 of Raleigh, on June 20, 2010. She worked at Rex Hospital in Raleigh as a registered nurse before receiving her physical therapy degree from Duke. She is survived by a sister and two brothers.

Francis P. Schmidt '58 of Johnstown, Pa., on April 29, 2012. He served in the Army as a guard at Fort Knox and worked for Bethlehem Steel. An All-

THE LEUKEMIA & LYMPHOMA SOCIETY CONGRATULATES NORTH CAROLINA CHAPTER'S TRIANGLE WOMAN OF THE YEAR.



Amy P. Abernethy, M.D.
Duke University Medical Center



LEUKEMIA &
LYMPHOMA
SOCIETY

**MAN & WOMAN
OF THE YEAR**

The Leukemia & Lymphoma Society congratulates this year's winners and all the candidates who competed for the title. Their efforts and commitment have made an impact in the search for cures and effective blood cancer therapies.

www.mwoy.org/tri • 888.HELP.LLS

Star basketball player in high school, he was inducted into the Cambria County Sports Hall of Fame. He is survived by his wife, Corrine, and a brother.

Raymond M. Wilenzick A.M. '58, Ph.D. '62 of Atlanta, on July 25, 2011. He was a physics professor at Tulane University. Most recently, he worked as a medical physicist at Ochsner Hospital in New Orleans. He is survived by a son, two daughters, and seven grandchildren.

L. Neil Williams Jr. '58, J.D. '61 of Atlanta, on Aug. 26, 2012. After receiving his law degree from Duke, he joined the Atlanta law firm of Alston & Bird, where he served as managing partner from 1984 to 1996. He later became the first general counsel of Invesco, an international investment management company. He was a former board chairman of both the Atlanta Symphony Orchestra and the Woodruff Arts Center. He held a number of Duke-affiliated leadership positions: past president of both the Duke Alumni Association and the Duke Law Alumni Association and past chair of the board of trustees. Most recently, he was chair and trustee of The Duke Endowment. He was awarded the Distinguished Alumni Award in 1990. He is survived by his wife, Sue; a son, **Frederick R. Williams** '81; a daughter; a sister; two grandchildren; two brothers-in-law, **Robert L. Sigmon** '57 and **D. Neal Sigmon** '65; and a niece, **Heather Lee Sigmon** '94.

Charles C. Caison '59, M.B.A. '86 of Archdale, N.C., on June 11, 2012. After serving in the Navy, he worked in business information systems and as a lawyer. He is survived by two daughters, two sons, and four grandchildren.

Andrew T. McRae Jr. '61 of St. Simons Island, Ga., on May 10, 2012. After obtaining his medical degree, he served in the Air Force as a flight surgeon in Tacoma, Wash. He later performed general and vascular surgery in Valdosta, Ga., before becoming a general practitioner in St. Simons Island. He was a member of several medical societies, including the American College of Surgeons and the Georgia Surgical Society. He is survived by his wife, Sheila; a son; three daughters; two sisters; and 10 grandchildren.

Robert M. Walker LL.B. '61 of Amherst, N.Y., on Dec. 3, 2011. He was a partner in the labor department of the Buffalo firm Hodgson Russ. He specialized in labor relations and representing school districts and municipalities. Survivors include two nieces and a nephew.

Thomas D. Lester '62 of Detroit, on July 25, 2011. He attended Washington and Lee University School of Law. He is survived by his wife, Linda; two sons; and a grandson.

Ethel A. Holloway Webb '62 of Lake Wylie, S.C., on May 10, 2012. She taught at Lord Baltimore Elementary School in Ocean View, Del. She was a lifelong gardener and volunteered in Cub Scouts and Girl Scouts. She is survived by her husband, Kenneth; three sons; a daughter; three stepchildren; and 20 grandchildren.

William J. Bicknell M.D. '63 of Marshfield, Mass., on June 5, 2012. He joined the Public Health Service Commissioned Corps, where he served as senior physician for Peace Corps members in Ethiopia. He later founded and was chair emeritus of the department of international health



We've found more... *Variety*
at Galloway Ridge!

How about a pizza with everything, including great friends? We love the new Bistro at Galloway Ridge at Fearington Retirement Community. We also love our casual Weathersfield Café, formal Camellia Dining Room, fun Belties Lounge, and all the amenities. And of course the peace of mind Life Care gives us. We've found retirement living with more variety. It's delicious! We'd love to have you join us.



GALLOWAY RIDGE
AT FEARRINGTON

Distinctive Retirement Living

Call us at (919) 545-2647 or (888) 763-9600.

3000 GALLOWAY RIDGE • PITTSBORO, NC
27312 • WWW.GALLOWAYRIDGE.COM

OPEN MONDAY THROUGH FRIDAY, SATURDAY 10 A.M.-2 P.M.
AND SUNDAY BY APPOINTMENT



at Boston University's School of Public Health and was a professor at its School of Medicine. He also held the distinction of being the first medical director of the U.S. Job Corps. Most recently, he worked to strengthen the Lesotho-Boston Health Alliance and improve medical capacity in the African country. He is survived by his wife, Jane; two sons; a brother; and two grandsons.

Larry G. Bumgarner B.D. '63 of Hickory, N.C., on July 4, 2011. He was a pastor in the Western North Carolina Methodist Conference for more than 20 years. After retiring from ministry, he owned a furniture business in Rural Hall, N.C. He is survived by his wife, Peggy; a son; a daughter; and four grandchildren.

Arthur B. Heyman '63 of Groveland, Fla., on Aug. 27, 2012. A three-year letterman on the men's basketball team, he led Duke to a 69-14 record and, in 1963, the school's first Final Four appearance. That season he was named NCAA Player of the Year. He was selected by the New York Knicks as the first overall pick in the 1963 NBA draft, and after six seasons in both the NBA and ABA, he retired. He made a second career in the restaurant business in New York. He is survived by his former wife, Sandra.

Wayne H. Wiley M.Div. '63 of Lynchburg, Va., on May 31, 2012. He began his teaching career at James Madison University, where he was an assistant professor of education and philosophy. In 1976, he moved to Mount Olive College, where he became a professor of humanities and dean of the college. Most recently, he was chair of the department of humanities and social sciences and a professor at Central Virginia Community College. A Fulbright Scholar, he traveled and studied extensively in India in 1985. He was also a Methodist pastor, serving various congregations in Virginia. He is survived by a son, a daughter, and seven grandchildren.

Grant J. Burns B.D. '64 of Henderson, N.C., on June 15, 2012.

John J. LaRosa M.D. '64 of Tallahassee, Fla., on June 4, 2012. A thoracic surgeon, he served in the Navy from 1984 to 1988 as a lieutenant commander. He was the doctor on standby when President Ronald Reagan visited Grenada in 1986. He is survived by his wife, Deborah; a son; two daughters; two sisters; and three grandchildren.

William R. Livermon Jr. M.Div. '64 of Richmond, Va., on Oct. 15, 2011. He was a pastor at United Methodist churches in Massachusetts and Virginia. A major in the Army, he ministered on numerous military bases around the globe. Upon retirement, he continued to serve in various ministries in Richmond. He is survived by his wife, Miriam; three children; his mother; two brothers; and nine grandchildren.

Alan H. Meyer '65, M.D. '69 of Sacramento, Calif., on May 5, 2012. He worked in the departments of internal medicine and gastroenterology at Kaiser Permanente Medical Center in Sacramento for 30 years, retiring in 2003. He is survived by his wife, Carolyn; a daughter; a son, **Edward A. Meyer** '96; his mother; three brothers; and three grandchildren.

John F. Corey Ed.D. '66 of Raleigh, on Feb. 17, 2010. He served in both World War II and

the Korean War, and was awarded the Silver Star, the Bronze Star, the Purple Heart, and eight Battle Stars. After his service, he spent his career working for the North Carolina Board of Higher Education, including as vice president for planning for UNC-CH. He also published a series of travel books about North Carolina. He is survived by a son, three daughters, and his sister.

Carol Christy Janssens '66 of Granville, Ohio, on June 13, 2012. After receiving her Ph.D. in political science from Ohio State University, she became a professor at Ohio University at Lancaster, where she taught for 30 years. She was named professor emeritus in 2001. Throughout her life, she volunteered her time to numerous environmental preservation projects. Survivors include her husband, Adriaan; a sister; and a cousin, **Paul F. Brown Jr.** B.S.E.E. '65.

William A. Zimmer '66 of Palm Springs, Calif., on May 19, 2012. He was a two-year letterman on the Duke basketball team. After graduating, he joined the Ohio National Guard and later became a stockbroker. He is survived by his wife, Karen; his father; a brother; and two sisters.

William P. Sellers IV '67 of Reynoldsville, N.Y., on June 12, 2012. He began his career as a law clerk with the chief U.S. District Court judge in Virginia. From 1983 to 2005, he served as a senior litigation counsel for the Department of Justice. During that time, he also worked as a senior white-collar crime prosecutor, as a senior legal adviser for regulatory enforcement, and as a super-

visor of the litigation branch. He received the Outstanding Achievement Award from the FBI. He is survived by his wife, Ruth, and a brother.

Robert S. Strevell '67 of Galveston, Texas, on May 9, 2012. He spent his career in Houston, where he worked in education, corporate law, and financial sales. He is survived by his wife, Linda; a son; a brother; and two sisters.

Erik Joki '68 of Maricopa, Ariz., on May 17, 2012. He is survived by his wife, Mary.

Nelson E. Myers Phys. A.C. '68 of Muskogee, Okla., on May 13, 2012. After serving in the Navy as a corpsman, he enrolled in Duke's physician's assistant program, the nation's first of its kind. He later worked at the VA Medical Center in Muskogee until his retirement in 2003. He was inducted into Duke University's Physician's Assistant Hall of Fame in 2010. He is survived by his wife, Gay; two daughters; a brother; a sister; and four grandchildren.

Deborah L. Smith Martson '69 of Portland, Ore., on Dec. 9, 2011. She worked for several advertising firms before becoming vice president of college relations for Reed College. She retired from that position in 1983 and dedicated herself to local organizations focused on families and children. She is survived by her husband, Rick; two sons; her mother; two brothers; and three grandchildren.

William T. Bennett HS '70 of Charlotte, on Aug. 27, 2012. He was a cardiovascular fellow at



Since 1992, our monthly calendars have offered over 72,000 cultural, educational, fitness and wellness offerings to enjoy. No wonder folks here celebrate their choice to make us home.

20 Years of Excellence
The FOREST at DUKE
 1992-2012
 Premier Retirement Living

2701 Pickett Road • Durham, NC 27705
 919.490.8000 • 800.474.0258 • www.forestduke.org



Duke's medical school from 1968 to 1970. He then became a major in the Air Force and served as chief of internal medicine at Ehring Bergquist Regional Hospital in Omaha, Neb. After completing his military service, he entered private practice at the Nalle Clinic in Charlotte. In 1986, he established the Bennett Cardiac Center for wellness, prevention, and cardiac rehabilitation. He was also a professor of medicine at Creighton University Medical School and UNC-CH. He is survived by his wife, Debbie; two daughters, **Heather Ann Bennett** '96 and **Tara Beth Bennett** '99; a sister; and a brother.

James K. Sexton HS '70 of Asheville, N.C., on May 30, 2012. He began his medical career

in Dunbar, W.Va., working for a family practice. After serving his residency at Duke, he joined the staff of Charleston Area Medical Center, where he served a term as chief of staff. He was also a member of the West Virginia Air National Guard for 26 years. He is survived by his wife, Barbara; a son; two daughters; a sister; and three grandchildren.

James H. Webb Jr. '71 of Tallahassee, Fla., on June 12, 2011. He was a public defender who practiced in numerous counties across Florida. He is survived by his son and his mother.

Mary-Marguerite Kohn '72, M.Div. '92 of Arbutus, Md., on May 3, 2012. In addition to

serving as an Episcopal priest, she taught pastoral counseling at both Loyola College in Maryland and Fordham University's Graduate School of Religion and Religious Education. Most recently, she acted as co-rector of St. Peter's Episcopal Church in Endicott City, Md. She is survived by a brother and two sisters.

William C. Warner '72 of Rocky Mount, N.C., on March 18, 2011. He is survived by a son, two brothers, and a sister.

Jacqueline Renee Pridgen Westcott Ed.D. '72 of Charlotte, on May 13, 2012. She taught in the Charlotte-Mecklenburg public school system and worked for the National Laboratory for Higher Education in Durham. In 1973, she was appointed state commissioner of social services by Gov. James Holshouser. Most recently, she was vice president of learning resources and dean of Central Piedmont Community College. She is survived by three daughters and five grandchildren.

William H. Bayliss J.D. '73 of Chapel Hill, on May 11, 2012. He enlisted in the Army Air Corps in World War II, where he was a B-25 pilot and flew missions over the Philippines and Borneo. After his military service, he completed a degree in biochemical sciences at Harvard in 1948. He then worked in the pharmaceutical industry in the New York area before moving to Kalamazoo, Mich., and becoming director of public affairs for the Upjohn Co. After 11 years with the pharmaceutical firm, he enrolled in Duke law school. He spent the next 20 years of his career in Chapel Hill as a partner in the firm Bayliss, Hudson & Merritt. He is survived by his wife, Ann; three sons; and three grandchildren.

Thomas N. Gillis '74 of Dallas, on May 28, 2012. After working for a short time as a marketing representative for Dun & Bradstreet, he began his insurance career as an account executive with Liberty Mutual in Dallas. In 1985, he became executive vice president of Wm. Rigg Co., an insurance solutions provider. He also served on the board of directors of the Independent Insurance Agents Association of Dallas. He is survived by his wife, Tracey; two sons; a daughter; his mother; two brothers; and a sister.

Michael C. Tice J.D. '74 of Fort Myers, Fla., on May 18, 2012. He was instrumental in starting the Big Brothers Big Sisters program in Fort Myers. Survivors include three children.

Frank Woriak M.D. '76, P.T. Cert. '76 of Pembroke, N.C., on May 30, 2012. After enlisting in the Navy, he was assigned to the deep chamber program at Pensacola Naval Base. One of his projects entailed working with "Baker," the famous squirrel monkey who was launched into space and survived. He later served as a hospital corpsman aboard ships and submarines, including during the Vietnam War. After completing his military service, he graduated from Duke's medical school, the first Native-American to do so. Soon after, he started a private medical practice, The Family Medicine Clinic, in Pembroke, N.C. He also worked as medical director of Doctor's Urgent Care in central North Carolina. Most recently, he managed a medical center in Pembroke. He is survived by his wife, Carolyn; eight children; six sisters; and 12 grandchildren.

Lawrence W. Hendon M.Div. '77 of Daytona Beach, Fla., on May 19, 2012. A lieutenant

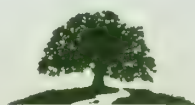
How do you want to retire?

Reconnect



Free yourself from home ownership worries and spend more quality time with the ones you love. Relax and enjoy the holidays, visit with family and friends, and dine on a delectable meal prepared by our award-winning chef. Choosing a secure, maintenance-free lifestyle at The Village at Brookwood lets you stay connected with those who matter most.

The Village at Brookwood — This is how we do retirement.



The VILLAGE

AT BROOKWOOD

1860 Brookwood Ave.
Burlington, NC



Sponsored by
Alamance Regional
Medical Center

800-282-2053

www.VillageAtBrookwood.org

colonel in the Air Force, he served as a chaplain at the Air Force Academy in Colorado and on bases in Korea and Cuba. He was also a pastor at six different churches across the U.S. He is survived by his wife, Ann; two sons; three daughters; a sister; and a granddaughter.

James E. Nordstrom M.D. '79 of Farmington, N.M., on June 10, 2011. From 1984 to 1999, he served as the emergency-room director at San Juan Regional Medical Center in Farmington. He is survived by his father, two brothers, and a sister.

Richard A. Lake II '80 of Raleigh, on June 1, 2012. He was a ham radio operator. He is survived by his wife, Robin; two sons; his mother; and a sister.

Howard S. Williams '80 of Baltimore, on May 20, 2012. He began his medical career in 1986, working as an emergency clinic physician in Roanoke, Va. After completing his residency in Baltimore, he became an associate ophthalmologist. In 2001, he joined the staff at Father Martin's Ashley, an alcohol and drug addiction rehab center, as a physician, retiring in 2011. He is survived by his wife, Pamela; two daughters; his father; a stepmother; a stepdaughter; two brothers; and two sisters.

Jonan Contee Sullivan Savery A.H.C. '81 of Fort Pierce, Fla., on July 19, 2011. She worked in various capacities for the Army Security Agency in Warrenton, Va., the Food and Agriculture Organization of the U.N., and the Sheridan School in Washington, D.C. She later transitioned to a career in hospital administration and worked for 16 years at Virginia Beach General Hospital. After

moving to Florida, she became executive director of the Indian River County Medical Society. Along with her husband, she owned and operated a barbeque restaurant in Chesapeake, Va. She is survived by her husband, Frank; two sons; a brother; and three granddaughters.

Thomas L. Ellis B.S.E. '84 of Winston-Salem, on June 30, 2012. After completing his residency, he joined the faculty of the department of neurosurgery at Wake Forest Baptist Medical Center. During his tenure at Wake Forest, he also served as director of the neurosurgery residency program and medical director of the deep-brain stimulation surgery and epilepsy surgery programs. His research focused on curing malignant brain tumors through the use of neurostimulation. He is survived by his wife, Michel; three daughters; a son; his mother; a brother; and three sisters.

Jeffrey A. Stonerock J.D. '84 of Vienna, Va., on Oct. 13, 2011. Upon graduating from West Point, he served in the Army for 13 years, including as an Army ranger and paratrooper. Following his active duty, he practiced law for Baker Botts in Washington, D.C., until his retirement in 2009. He retired from the Army Reserve as a lieutenant colonel in 2001. He is survived by his wife, **Grace Janine Stonerock** A.H.C. '84; two sons; two daughters; his mother; and a brother.

John A. Vernon '91 of West Lafayette, Ind., on June 19, 2012. He spent his career in the pharmaceutical industry, serving as a faculty research fellow at the National Bureau of Economic Research and as a senior economic policy adviser for the Food and Drug Administration. Most recently, he was a professor of health policy and manage-

ment at UNC-CH and a professor at Purdue University. He is survived by his wife, Jucinea; two sons; a stepdaughter; his mother; a sister; and a brother.

Gregg A. Breningmeyer M.B.A. '98 of Raleigh, on Aug. 9, 2012. He was director of sales and marketing for John Deere Worldwide Golf and Turf Co. He is survived by his wife, Laurie; two sons; his father; two sisters; and a brother.

Robin K. Whitlock-Smith J.D. '98 of Culpeper, Va., on May 22, 2012. She practiced law at Mayer Brown & Platt in Chicago and Smith Anderson in Raleigh. Most recently, she served as in-house counsel at GlaxoSmithKline in Research Triangle Park. She is survived by her husband **Jeffrey Morgan Smith** J.D. '98; a daughter; her parents; and a sister.

Edward P. Papalia III M.E.M. '07 of Newark, N.J., on June 5, 2012. He attended Haverford College, where he was a three-time track and field All-American. He was awarded an NCAA postgraduate scholarship, given annually to the nation's finest student-athletes. Most recently, he worked as an energy and climate policy analyst with Eastern Research Group in Boston. He is survived by his parents, his sister, and a grandmother.

Tyler J. Greathouse M.E.M. '11 of Raleigh, on Aug. 13, 2012. From 2002 to 2004, he served a mission in Jacksonville, Fla. for the Church of Jesus Christ of Latter-day Saints. Most recently, he was a senior consultant for Touchpoint Solutions, a startup company founded by his brother, Brett. He is survived by his wife, Lindsey; his parents; three sisters; and four brothers.

Classifieds

Looking for ways to **reach an exclusive clientele?** Advertise with *Duke Magazine* and access more than 120,000 potential clients in the Duke family. For rates, requirements, deadlines, and all other questions, check out **www.dukemagazine.duke.edu**, or e-mail us at **dukemag@duke.edu**.

ACCOMMODATIONS

Paris: Marais. Luxury rental in center of Paris. Close proximity Picasso Museum, Centre Pompidou and other historical sites as well as gourmet shops of Rue de Bretagne. See owner's website at www.parischapon.com.

ST. MAARTEN Gorgeous beaches, shopping, dining in the "Culinary Capital of the Caribbean." Alum's private 4 bedroom family home sleeps 1-8. Stunning view of St. Barts. Photos, rates: www.villaplateau.com. Special discount for Duke.

FOR SALE

BLUE RIDGE MOUNTAIN WEEKEND RETREAT: Almost 73 acres of Hiking and ATV Trails. Stunning Views of Mt. Rogers. 2 Cabins. Located about 2 hours north of Charlotte, .6mi from Ashe County, just over the NC line. Convenient to West Jefferson. \$231K. www.ncmountainland.net/royal-ridge Paul Breden 800-849-9225

Four ten (10) acre wooded lots (\$69,975) on stream in Orange County only 25 minutes from Duke between Mebane/Chapel Hill 4+/- miles from I-40/I-85 on Mebane Oaks Road. Owner financing available. John M. Jordan, 58', Saxapahaw, NC 27340, (336) 376-3122 (work), (336) 214-3650 (mobile), (336) 376-3132 (home), john@jordanproperties.com

Retro

A Sporting Chance

1934 event gave women a day to play—if not compete. | By Valerie Gillispie

Title IX, the landmark federal legislation that celebrates its fortieth anniversary this year, marked a breakthrough for female athletes at Duke, opening the door to full participation in varsity athletics on a national stage. But the desire of women to compete on a level playing field with men can be seen much earlier in campus history. Those aspirations—and the resistance to them—were evident during a curious event in 1934 called “Play Day.”

Perhaps the earliest intercollegiate competition for women at Duke, “Play Day” was held on November 23, 1934, at the University of North Carolina at Chapel Hill. Twenty-one students from the Duke Woman’s College joined students from the Woman’s College of the University of North Carolina (now UNC-Greensboro), Meredith College, Peace College, and St. Mary’s College (now St. Mary’s School) to participate in sports such as “bat ball,” “volley ball,” and “captain ball.” Similar events had been occurring around the nation since the 1920s, but the one at UNC appears to have been the first in the Triangle.

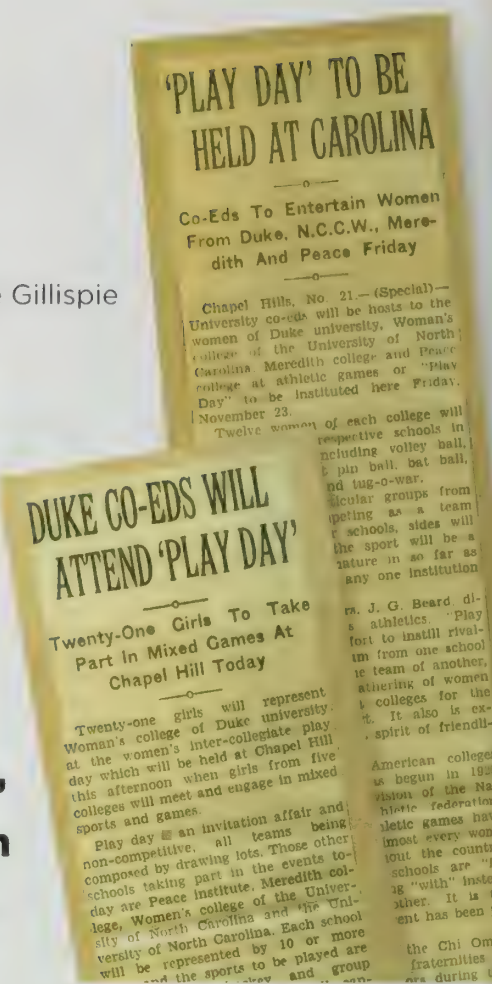
Organizers took pains to emphasize Play Day’s harmonious nature. The aim of the event, according to the Durham *Morning Herald*, was “to sponsor better relations among the schools, and therefore all games

will be so arranged as to have no competitive school spirit.” For team sports, women were divided into non-school-specific teams to discourage any rallying around the school pride. Following the athletic events, participants were treated to tea and “comic prizes,” which were intended solely for entertainment rather than to recognize achievement. Even so, it was noted that Alma Hull ’36 of the Duke Woman’s College won the archery contest.

Play Day didn’t seem to make much of a splash on the Duke campus. The *Chronicle*

Following the athletic events, participants were treated to tea and “comic prizes,” which were intended solely for entertainment rather than to recognize achievement.

made no mention of the event and didn’t bother to report its outcome. But there were other signs of growing interest in women’s sports. As early as 1917, twenty years after women were admitted as “regular students,” Coach “Cap” Card began offering voluntary gym classes for women, and by 1919 a female instructor was hired. In 1924, the first director of athletics for women, Julia Grout, arrived. According to a *Chronicle* article in 1931, both Grout and the students found the facilities inadequate,



even with the opening of Southgate Hall, which contained a gymnasium and dining hall, in 1921.

“Having no pool of their own, the co-eds had to be content with using the boys’ pool two afternoons of the week,” the article reported. “There was no special athletic field set aside for the use of the women, and for years they took archery on one slope, played baseball on another, and dribbled hockey and soccer balls up and down a rough, uneven field that was unin-

THEN&NOW

WEST CAMPUS UNION

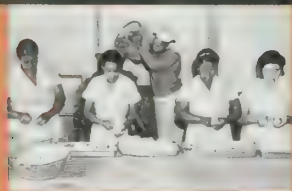
As the West Campus Union prepares for an overhaul beginning in 2013, we take a look back at scenes from earlier days in its dining halls.

Deck the hall: Union staff stand ready for the holiday's annual Christmas foot in Grout Hall

1947



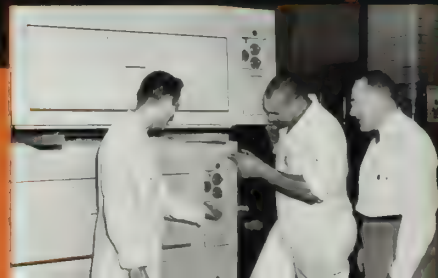
Fired up: Longtime Duke director of dining halls Ted Minah (right) watches as staffers J.C. Howell (left) and Bill Jones (center) install a new brick oven.

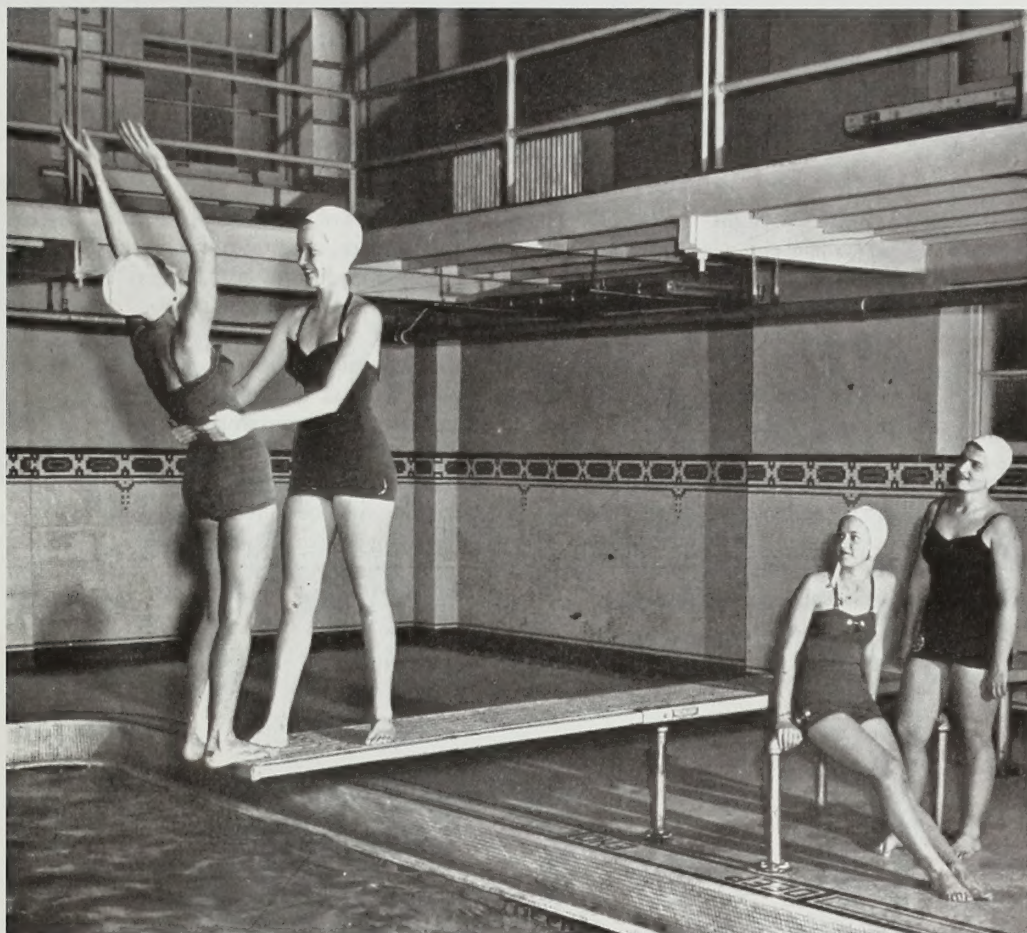


1946

From scratch: In an era before processed food, a good square meal meant plenty of hand preparation. Here, kitchen staff peel potatoes in the union's vegetable room.

1951





dated by the smallest shower.”

In a February 1923 *Archive* essay, Herminia Haynes '23 argued that the gap between Trinity men and women was largest when it came to access to sports: “The women pay the same athletic fee as do the men. The men are provided with two coaches and an athletic director for their physical culture, football, basketball, baseball, track, and courts for tennis. The women do not have a regular physical director, although they have some equipment and enjoy the use of two tennis courts twice a week.”

The conversion of Southgate Hall to serve women exclusively helped provide more opportunities for participation in sports. However, there were limitations to what student-organized groups such as the Women's Recreation Association could do to provide competitive opportunities to female students. Occasional intramural competitions in the 1950s and 1960s gave way to fully formed and supported women's teams at the dawn of Title IX. Forty years after Play Day was held, Duke women could finally play with the respect—and in the spirit of competition—that Duke men had long enjoyed.

Gillispie is the university archivist.



Pioneers of sport: Members of the women's swimming team practice diving in 1954 (top); a 1938 physical-education course, required for graduation (left); and bowling in the basement of the Ark on East Campus (above).

1961 **Rival room:** The University Room, currently the Loop, featured the seals of schools in the Atlantic Coast, Ivy League, Big Ten, and Southeastern conferences.



The Dope Shop, a popular hangout in the basement of West Union, closed in 1982.

1970s

1991

The Oak Room offered students a more formal dining experience on campus.



ONLINE: Read more about Duke dining and longtime dining director Ted Minah at dukemagazine.duke.edu.

Devil's Own

In the late 1950s, an emerging early-music movement sought to develop a richer appreciation for the instruments and performance methods of centuries past. Musicologists delved into the difficulties of guessing a composer's intent based on limited historical evidence, while instrument makers worked meticulously to create authentic reproductions of the original instruments. Woodwinds such as the crumhorn, previously relegated to Renaissance-era court musicians, were ushered into contemporary use.

The Duke University Musical Instruments Collection (DUMIC), maintained in the Mary Duke Biddle Music Building, includes eleven reproduction crumhorns. The late Robert D. Miller Ph.D.

Sharp pitch: Music department graduate students Karen Cook and Stephen Pysnik A.M. '10 play crumhorns from the instruments collection.

'72, M.D. '73, a former member of the Triangle Recorder Society and Duke's Collegium Musicum, an ensemble that performs in the Renaissance and Baroque traditions, contributed four of the instruments in 2006. The others arrived in 2009 as part of the Charles J. Warner Collection.

Featured regularly in collegium concerts, the crumhorns possess a sharp pitch that, though difficult to produce, emerges through the softer tones of its contemporaries: the stringed lute and viol. Music students can try their hand at the crumhorn too: Back in 2010, Martin Connor '12 ("Sounding the Bells for Haiti," May-June 2012) won a composition contest sponsored by DUMIC for his piece *Scherzo for Crumhorns*. —Tim Lerow



Les Todd

Duke Reunions

2013

April 12-14, 2013

**Recapture the Fun, the Friendships,
and the Magic of your Duke Experience!**

Reunions 2013 offers something for everyone.

From educational sessions to class parties, from tours and performance events to sports clinics, we've got a great Reunions Weekend coming your way this spring.

Your reunion begins online at:

www.DukeReunions.com

Duke
ALUMNI ASSOCIATION

CLASSES

**1953, 1958, 1963, 1968, 1973, 1978,
1983, 1988, 1993, 1998, 2003, 2008
and the Half Century Club**

Go online to see the list of people planning to attend the reunion, and be sure to add your name too!

www.DukeReunions.com

Duke Alumni Association

Reunions Office • Box 90572 • Durham, NC 27708-0572

www.DukeReunions.com



DUKE

DUKE UNIVERSITY, BOX 90572
DURHAM, NORTH CAROLINA 27708-0572

NONPROFIT ORG.
U.S. Postage
PAID
PPCO

C
PERIODICALS
PERKINS LIBRARY
BOX 90180

1353

My Duke, Your Duke, Our Duke

"The opportunities for Duke students are endless. I've studied political history and public policy both in Durham and abroad, attended a conference where I met members of Congress, and even interned at the U.S. State Department.

I'm incredibly grateful for those experiences, which are preparing me for a career in foreign policy. But what makes Duke truly special is the team of professors and advisers helping me navigate everything that Duke has to offer.

What I didn't realize until recently is that **my Duke "team" includes more than the people here on campus.** It includes all the alumni and friends who support students like me by contributing to the Duke Annual Fund. Gifts to the Annual

Fund provide financial aid grants—which allowed me to come to Duke in the first place—and support the incredible professors who have helped shape my college experience.



**DUKE
ANNUAL
FUND**

Thank you for giving to the Annual Fund this year and every year."

—Ashley Copeland



Show your support for students like Ashley by making a gift to the Duke Annual Fund today!

Connect with Duke and fellow alumni:

www.duke.edu

BY PHONE
(919) 684-2338

BY MAIL
Duke Annual Fund
Box 90581
Durham, NC 27708-0581

ONLINE
dukeforward.duke.edu/ourduke



Duke University Libraries